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UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MASSACHUSETTS BASIC-DATA REPORT NO. 5
GROUND-WATER SERIES

BROCKTON - PEMBROKE AREA

By

RICHARD G. PETERSEN

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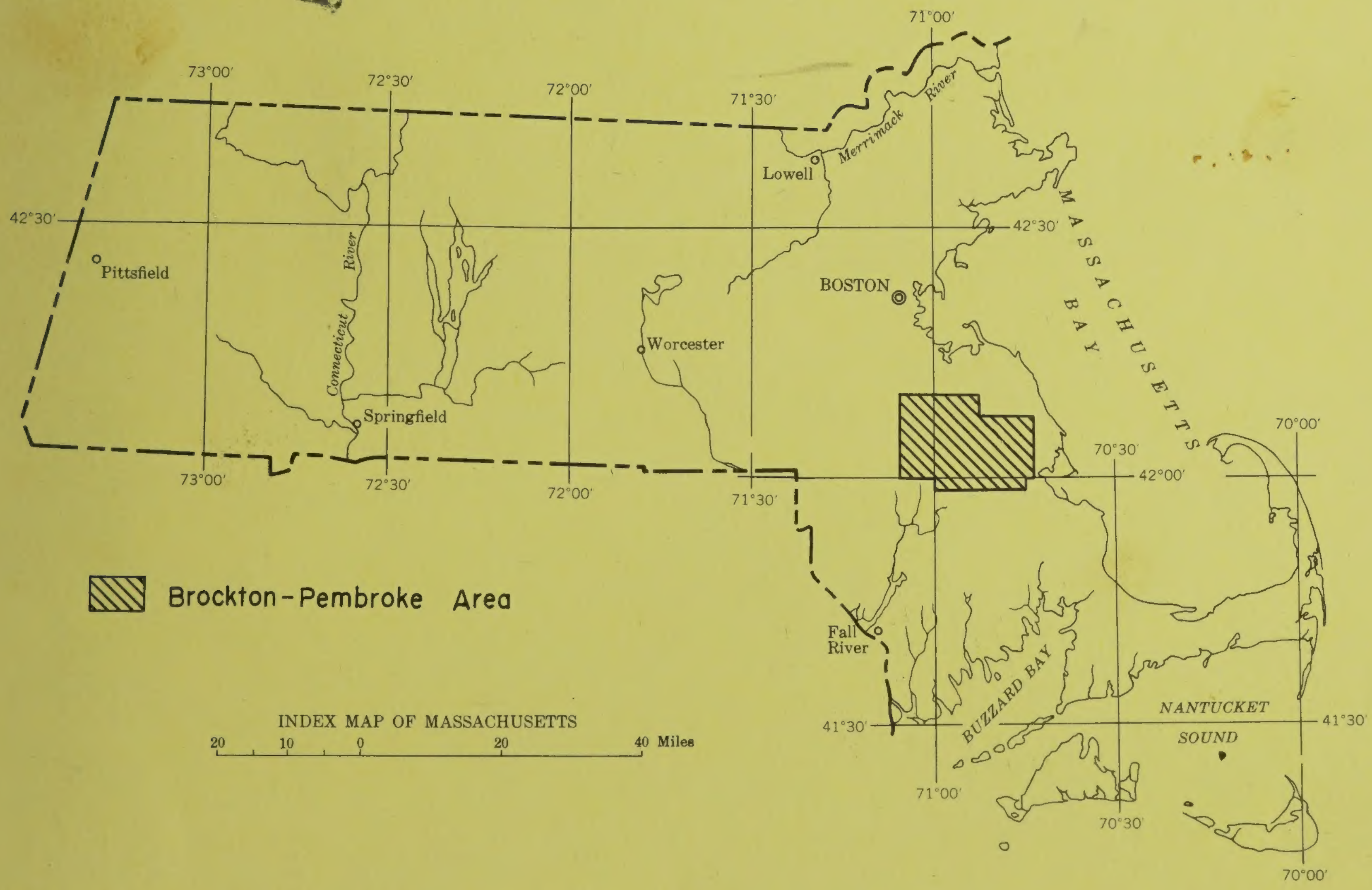

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1962

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UNITED STATES
DEPARTMENT OF THE INTERIOR
Geological Survey

MASSACHUSETTS BASIC-DATA REPORT NO. 5
GROUND-WATER SERIES

BROCKTON-PEMBROKE AREA

Records of selected wells, test holes, ponds, and streams in the Brockton-Pembroke area, Massachusetts

By

Richard G. Petersen

Prepared in cooperation with

THE COMMONWEALTH OF MASSACHUSETTS, WATER RESOURCES COMMISSION

Boston, Massachusetts

1962

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INTRODUCTION

The Brockton-Pembroke area is composed of parts of three drainage basins: (1) Taunton River, (2) North River, and (3) Jones River. It includes an area of about 112 square miles in the northern part of Plymouth County, Massachusetts.

This report presents basic data collected as part of an investigation of the geology and ground-water resources of the Brockton-Pembroke area, Massachusetts by the U. S. Geological Survey in cooperation with the Massachusetts Water Resources Commission. These data have been prepared for release in order to make available to the public basic ground-water data that will be useful in the planning of water-resources development.

Most of the data contained in this report were collected by Richard G. Petersen and Charles E. Shaw, Jr. during the period 1957-60. Richard J. Hecht and Russell P. Cook assisted with the data collection. Stream-flow measurements in table 7 were made by Donald F. Farrell. The data include records of 364 wells and test holes (table 2); logs of 184 wells and test holes (table 3); chemical analyses of 11 water samples (table 4); measurements of water levels in 26 wells (table 5); measurements of water levels and water temperatures in 5 ponds (table 6); and measurements of discharge in 5 streams (table 7).

Table 1 is intended to be an aid in determining the general characteristics and relative excellence as aquifers of the water-bearing units penetrated by the wells and test holes.

WELL-NUMBERING AND LOCATION SYSTEMS

In Massachusetts each well is designated by a symbol whose first term is the name of the town or city in which the well is located and whose second term is a number that is assigned in the order in which the well was inventoried within the town or city. A separate series of numbers beginning with 1 is used within each town or city. In the tables the name of the town and the number are given, but on the map (fig. 1) only the number appears beside the symbol of the well.

For ease in locating wells and test holes on the map, a location system based on the $7\frac{1}{2}$-minute topographic quadrangles in New England is used. In this system each $7\frac{1}{2}$-minute quadrangle is designated by a capital letter and a number beginning with A1 for the Glenville quadrangle, Connecticut. From here the quadrangles are lettered from west to east and numbered from south to north. Each $7\frac{1}{2}$-minute quadrangle is subdivided into nine $2\frac{1}{2}$-minute rectangles, and each $2\frac{1}{2}$-minute rectangle is subdivided into nine 50-second rectangles, as shown on the sketch (fig. 2). The location designation for each well and test hole is listed in table 2. On the well-location map (fig. 1), the quadrangle designators are indicated on the margins and the $2\frac{1}{2}$-minute rectangles are bounded by the lines of latitude and longitude, but the 50-second rectangles are not shown.

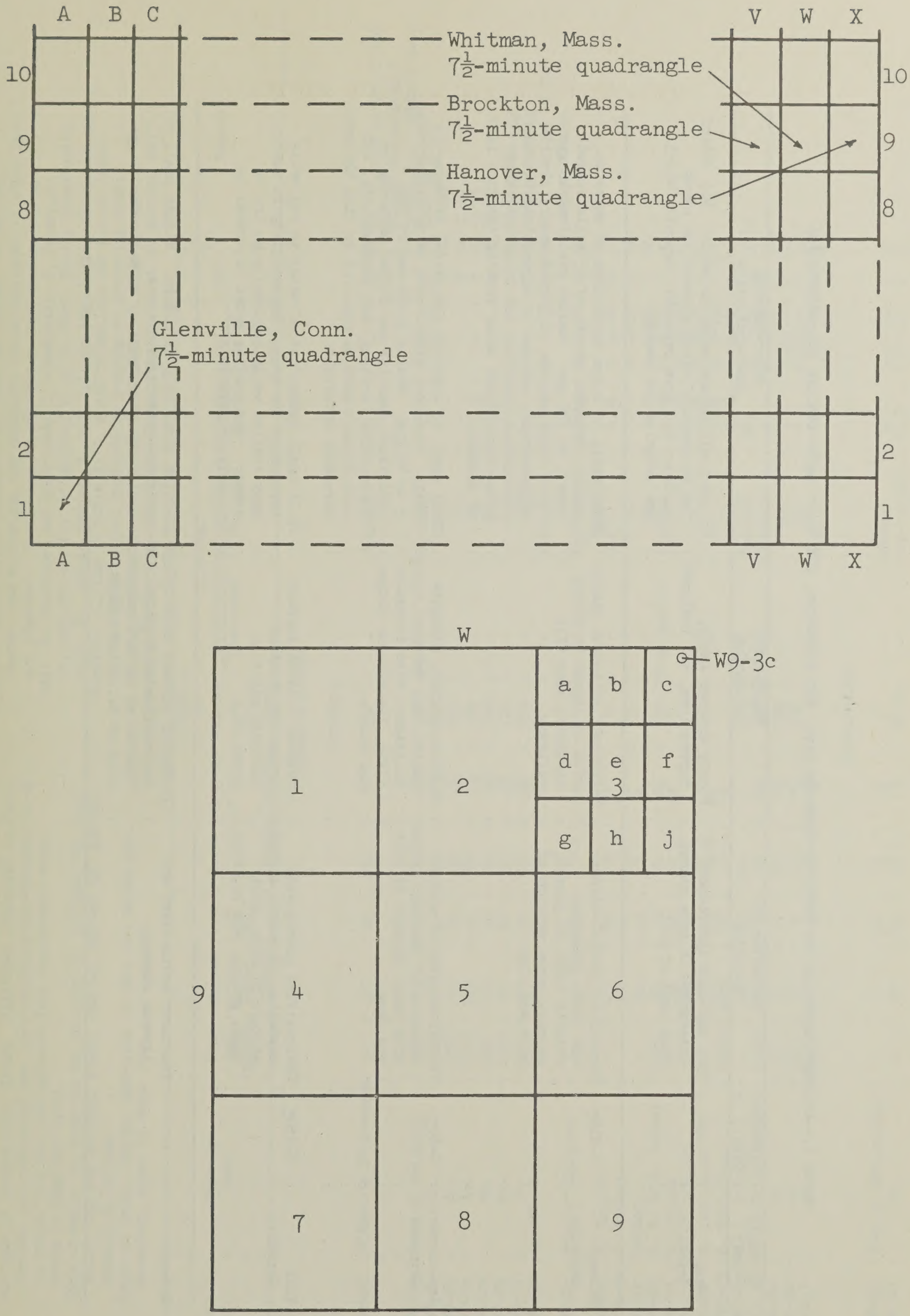

A B C
V W X
10
9
8
2
1
Whitman, Mass. 7½-minute quadrangle
Brockton, Mass. 7½-minute quadrangle
Hanover, Mass. 7½-minute quadrangle
Glenville, Conn. 7½-minute quadrangle
W
9
1
2
3
4
5
6
7
8
9
a
b
c
d
e
f
g
h
j
W9-3c

Figure 2.--Sketch illustrating well-location system.

Table 1.--Geologic units in the Brockton-Pembroke area, Massachusetts, and their water-bearing characteristics

Geologic unit	Thickness (feet)	Character of material	Topographic situation	Water-bearing characteristics
Swamp deposits	0-10±	Peat and muck interbedded or intermixed in some places with sand or silt.	Poorly drained areas, depressions, and lowlands.	Do not yield ground water to wells. May retard the movement of water between the swamp surfaces and more permeable deposits which may underlie the swamps.
Outwash deposits	0-210±	Stratified glacial-stream and -lake deposits. Chiefly sand; in places, contain large amounts of silt and clay.	Relatively extensive plains with collapsed or pitted surfaces; also fill valleys.	Yield small to large quantities of water to wells. Reported yields of 23 wells ranged from 1 to 700 gpm. Median yield was 40 gpm. Store large amounts of ground water, provide supplementary storage to adjacent or subjacent ice-contact deposits, and furnish a large proportion of the water forming the base flow of streams.
Ice-contact deposits	0-80±	Stratified glacial-stream deposits of sand and gravel with small amounts of silt and clay.	Relatively flat, elongate plains, and terraces along hillsides; also irregular hills, low sinuous ridges, and mounds.	Yield small to moderate quantities of water to wells. Reported yields of 9 wells ranged from 3 to 40 gpm. Median yield was 25 gpm. Individual deposits may differ markedly in composition, sorting, and permeability, and each deposit must be explored to find the more permeable materials.
Till deposits	0-150±	Unstratified glacial-ice deposits. A poorly sorted mixture of clay, silt, sand, gravel, and boulders.	Irregular rolling surface in ground moraine; elongate hills in drumlins.	Yield small quantities of water to dug wells throughout the area. Permeability is small. Many shallow wells reportedly go dry in summer. May confine water in cracks in underlying bedrock.
Bedrock	-	Fractured sedimentary and igneous rocks.	Irregular surface underlying unconsolidated deposits. Exposed at surface generally on hills and ridges.	Contains water only in cracks. Yields small to moderate quantities of water to drilled wells. Median reported yield of 51 wells was 15 gpm.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts

Well no.: For explanation of well-numbering system, see text, p. 2.
Location: For explanation of well-location system, see text, p. 2.
Altitude of land-surface datum: Altitudes expressed in feet, tenths, and hundredths are instrumentally determined; those in whole feet are interpolated from topographic maps. Datum is mean sea level.
Type of well: A, augered; Dn, driven; Dr, drilled; Du, dug; Du-Dr, dug and drilled; Du-Dn, dug and driven; GP, gravel-packed; J, jetted.
Depth of well: Depths expressed in feet and tenths are measured; those in whole feet are reported.
Depth to bedrock or refusal: An "R" appended to the depth indicates the well or test hole was bottomed at refusal which may be bedrock, a boulder, a hard or cemented layer, or till.
Level: Water levels expressed in feet and tenths, or in feet, tenths, and hundredths are measured; those expressed in whole feet are reported. Depths are in feet below land-surface datum.
Use: A, abandoned and destroyed; C, commercial; D, domestic; In, industrial; Ir, irrigation; O, U. S. Geol. Survey observation well; PS, public supply; T, test hole or test boring.
Remarks: L, Log in table 3; Y, yield in gallons per minute (gpm); dd, drawdown in feet produced by pumping at preceding rate; C, chemical analysis of water in table 4; W, water levels in table 5; T, temperature in degrees Fahrenheit.

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
PLYMOUTH COUNTY														
ABINGTON														
8	W9-2d	D'Amato's Supermarket	-	120	Dr	230	8	10	-	Bedrock	15	-	In	T 55. Y 35 at 60 ft; Y 100 at 230 ft. pumping 2 hours; Y 45 after 2 hours.
9	W9-2e	Town of Abington	1953	75	GP	48	12-8	48	Sand	Outwash	4.3	2-18-50	PS	Y 700; dd 19.2. C.
16	W9-2b	do.	1953	105	Dn	32	2½	32R	-	do.	-	-	T	L. Y 20.
17	W9-2b	do.	1953	110	Dn	35	2½	35R	-	do.	-	-	T	L. Y 10.
20	W9-2b	do.	1953	105	Dn	22	2½	22R	-	do.	3.33	-	T	L. Y 25.
22	W9-2b	do.	1953	110	Dn	20	2½	20R	-	do.	4.58	-	T	L. Y 35.
24	W9-2b	do.	1953	87	Dn	20	2½	20R	-	do.	-	-	T	L. Bridge boring.
25	W9-2b	do.	1953	87	Dn	20	2½	20R	-	do.	-	-	T	L. Bridge boring.
28	W9-2b	Griffin Dairy	1956	115	Dr	354	8	80	-	Bedrock	30(?)	3- -57	D,In	C. T 51 3-27-57. Y 75 pumped 5 hours.
31	W9-2e	Town of Abington	-	79.87	Dn	29.4	2	-	-	Ice-contact deposits	2.45	4- 1-57	O	W.
32	W9-1c	A. Trainor	-	215	Du	19.1	24	-	-	Till	9.92	9- 9-58	O	
33	W10-7h	G. Miller	-	185	Du	15.2	30	-	-	do.	8.42	9- 9-58	O	W.
34	W9-1b	Lathrop	-	152	Du	15.1	36	-	-	do.	8.90	9- 9-58	O	W.
35	W9-2b	U. S. Geol. Survey	1957	89	A	31	2½	33R	Fine gravel	Outwash	1.80	5- 9-58	O	L.
36	W9-2d	G. Rounds	-	130	Du	17.2	28	-	-	Till	11.19	9- 9-58	-	
37	W9-1f	G. P. Gabriel	-	160	-	25.5	-	-	-	do.	15.56	9- 9-58	-	
38	V9-3c	B. Swinimer	-	215	Du	13.6	24	-	-	-	9.91	9- 9-58	-	
39	W10-7j	A. Gustofson	1928	170	Du	12.2	18.	-	-	Outwash	9.44	9- 9-58	D	
40	W10-8g	H. A. Potsdam	-	140	Dr	250	-	23	-	Bedrock	22	9- -54	D	Y 15.
41	W9-2e	U. S. Geol. Survey	1957	75	A	39	4½	39R	-	Outwash	14	9-17-57	T	L.
42	W9-2e	do.	1957	85	A	23	4½	23R	-	do.	6	9-17-57	T	L.
43	W9-2e	do.	1957	80	A	28	4½	28R	-	do.	8	9-18-57	T	L.
44	W9-1f	do.	1957	140	A	17	4½	-	-	Till	-	-	T	L.
BRIDGEWATER														
23	W8-2b	Town of Bridgewater	-	30	Dn	73	2½	-	-	Outwash	2.5	3-29-54	T	L.
24	W8-2b	do.	-	50	Dn	86.9	2½	86.9	-	Ice-contact deposits	11.8	4-21-54	T	L.
25	W8-2a	do.	-	30	Dn	36.8	2½	-	-	Outwash	Flowing	4- 8-48	T	L.
26	W8-1b	do.	-	40	Dn	25	2½	-	-	do.	0	4-13-54	T	L.
27	W9-7i	do.	-	40	Dn	36	2½	-	-	-	Flowing	4- 6-48	T	L.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
PLYMOUTH COUNTY (Continued)														
BRIDGEWATER (Continued)														
28	W9-8h	Town of Bridgewater	-	30	Dn	61.8	2½	-	-	Ice-contact deposits	4.5	4- 1-54	T	L.
64	W9-8h	U. S. Geol. Survey	1957	50	A	34	-	34R	-	Outwash	11	9-12-57	T	L.
65	W9-8h	do.	1957	40	A	39	-	39R	-	do.	-	-	T	L.
66	W9-8g	do.	1957	55	A	79	-	79R	-	Ice-contact deposits	-	-	T	L.
67	W9-7i	do.	1957	70	A	28	-	28R	-	do.	6	9-12-57	T	L.
BROCKTON														
1	V9-5c	Producers Dairy Products	1929	125	Dr	540	8	90	-	Bedrock	-	-	In	Y 60.
7	V9-6f	Washburn Candy Corp.	1951	80	Dr	450	8	26	-	do.	3	-51	-	Y 150 at 150 ft; pumped 36 hours.
8	V9-6a	H. K. Stone	1949	150	Dr	187	8	7	-	do.	28	-49	-	Y 40 at 155 ft.
18	W9-1h	A. E. Hopgood	-	110	Dr	100	6	12	-	do.	25	-	D	Y 60. C.
20	V9-3c	McPherson	-	195	Dr	50	6	-	-	do.	-	-	D	
28	V9-3d	James Walch	-	165	Du	9.7	18	-	-	Till	4.37	4-18-57	O	
30	W9-1e	South Shore Disposal	-	150	Dr	250	8	8	-	Bedrock	11	4-10-58	I	Y 11.
31	W9-4b	Earle Sears	1858	100	Du	19.0	24	-	-	Till	9.77	9- 9-58	D,S	Water reported hard.
33	W9-4g	John Terzian	-	120	Du	-	-	-	-	do.	-	-	-	
34	W9-1h	Lewis Consis	-	130	Du	8.5	24	-	-	Ice-contact deposits	-	-	D	
35	V9-2j	Sarkis Tashjian	1957	160	Du	12.7	30	-	-	do.	11.82	9- 9-58	Ir	
36	V9-2f	G. Batchelder	-	201	Du	-	-	-	-	Till	-	-	-	
38	V9-6b	Brockton Public Market	1953	120	Dr	30	8	30	-	-	7.3	8-22-53	In	Y 240.
39	V9-2j	Brockton Bocce Club	1954	145	Dr	105	-	8	-	Till	10	-54	D	Y 3.
40	V9-6e	Hathaway Bakeries	1941	90	Dr	81	-	81	Sand	Ice-contact deposits	-	-	A	
41	V9-3j	C. J. Nessralla	1949	125	Dr	20	2	20R	-	Till	-	-	T	
42	V9-6a	-	-	155	Dr	80	-	10	-	Bedrock	19	1-20-54	In	Y 30, dd 2.6 after 7 hours pumping.
43	W9-1e	J. L. Curtin	-	150	Dr	154	-	10	-	do.	6	3-18-54	D,S	Y 4.
44	V9-5c	Thorney Lea Golf Club	-	140	Dr	27	-	27R	Sand and gravel	Ice-contact deposits	5.75	2- 3-54	Ir	L. Y 15.
45	V9-5f	Anthony Auretto	-	120	Dr	76	-	18	-	Bedrock	8	4-15-55	-	Y 15.
46	V9-3j	Club National	-	90	Dr	100	-	-	-	do.	12	4- 4-56	D	Y 15.
47	V9-6j	Bourget Co.	-	85	Dr	300	-	40	-	do.	12	5- 1-56	In	Y 40.
48	V9-3j	Grenier Funeral Home	-	100	Dr	45	-	20	-	do.	8	5-17-56	D	Y 50.
49	V9-6b	Paramount Cleaners	1956	90	Dr	119	-	60	-	do.	11	-56	In	Y 75; dd 15.
50	V9-6e	Vega Social Club	-	100	Dr	120	-	55	-	do.	9.5	7-18-56	D	Y 60.
51	V9-6e	Cape Cod Cafe	-	95	Dr	31	-	31(?)	-	Ice-contact deposits	16	8- -57	D	Y 34.
52	V9-3h	Christie's Market	1958	120	Dr	178	-	35	-	Bedrock	21	4-17-58	D	Y 35.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material		Water level		Use	Remarks
									Character	Geologic unit	Depth	Date of measurement		
PLYMOUTH COUNTY (Continued)														
DUXBURY														
8	Y9-7a	Town of Duxbury	-	100	Dn,J	20	2½	20R	-	-	1.67	-	T	L.
9	Y9-7e	do.	-	80	Dn,J	38	2½	-	-	-	4	-	T	L.
10	Y9-7a	do.	-	90	Dn,J	20	2½	20R	-	-	.83	-	T	L.
11	Y9-7a	Tarkiln Primary School	-	115	Dr	105	6	30	-	Bedrock	13	-	-	Y 3.
69	X9-6f	H. L. Sampson	-	75	Dr	130	6	30	-	do.	-	-	D	Y 30.
70	X9-6e	John McGrath	-	95	Dr	132	6	3	-	do.	7	-	D	Y 8. C.
71	X9-9c	Town of Duxbury	-	70	Dn,J	45.6	2½	65R	Sand and gravel	Outwash	.58	7- 2-55	T	L. Y 69; dd 4.83 after 3½ hours pumping.
72	X9-9c	do.	-	70	Dn,J	48.5	2½	-	do.	do.	1.1	4-29-55	T	L. Y 52; dd 3.8 after 3½ hours pumping.
73	X9-9c	do.	-	70	Dn,J	48.8	2½	68R	do.	do.	2.0	6-24-55	T	L. Y 51; dd 3.05 after 4 hours pumping.
75	X9-9c	U. S. Geol. Survey	1958	90	A	94	2½	94	-	do.	-	-	T	L.
76	X9-9b	do.	1958	80	A	17	2½	17	-	do.	-	-	T	L.
77	X9-9c	do.	1957	110	A	19	2½	19	-	do.	-	-	T	L.
79	X9-9e	do.	1958	70	Dn,Dr	101	2½	88.6	-	Bedrock	2.02	-	T	L.
EAST BRIDGEWATER														
1	W9-8j	F. Lancaster	-	65	Dr	105	-	59	-	Bedrock	15	5-17-57	D	Y 5.
2	W9-8e	H. P. Berquist	-	65	Dr	83	6	21	-	do.	18	-	D	Y 45.
3	W9-8h	W. S. LeBreque	-	65	Dr	40	-	-	-	do.	5	-	D	Y 6.
5	W9-8h	Mando Verensi	-	45	Dr	64	6	-	-	Outwash	8	-	D	Y 50. C.
6	W9-8h	Arthur Cox	-	85	Dr	140	6	64	-	do.	15	-	D	Y 6 at 60 feet.
7	W9-8h	W. S. Swift	-	85	Dr	110	6	53	-	do.	21	-	D	Y 9.
8	W9-8j	G. A. Fountain	-	75	Dr	105	6	55	-	do.	15	-	D	Y 11.
9	W9-6d	Adolph Skippin	-	80	Dr	80	6	19	-	do.	1	-	D	Y 25. C.
10	W9-7f	Robert Hall	-	40	Dr	270	6	45	-	do.	14	-	In	Y 20.
11	W9-7f	Fernàndez Super Mkt.	-	50	Dr	493	6	22	-	do.	20	-	In	Y 110.
12	W9-5j	Stanley Corbett	1953	75	Dr	103	8-6	20	-	do.	-	-	D	Y 10.
25	W9-8b	E. J. Leonard	-	80	Du	14.8	24	-	Sand and gravel	Ice-contact deposits	9.86	9- 9-58	D,O	T 47 4-1-57. W
26	W9-9e	Joseph Onulak	-	-	Du	15.8	33	-	-	Outwash	12.79	9- 9-58	U	
27	W9-9a	W. MacEachron	-	77	Du	16.6	21	-	-	Till	6.25	9- 9-58	O	W.
28	W9-4h	A. L. Mahoney	-	87	Du	18.3	36	-	Sand	Outwash	12.07	9- 9-58	O	W.
29	W9-7f	U. S. Geol. Survey	1958	45	Dn	6.2	1¼	-	Sand, fine, clay	do.	5.22	6-30-58	O	Y 3.
30	W9-7f	S. F. Dixon	-	85	Du	21.0	40	-	Sand and gravel	Till	9.80	9- 9-58	O	W.
31	W9-8e	H. P. Hood Co.	-	70	Dr	625	6	-	-	Bedrock	-	-	In	Y 18. C.
33	W9-8d	Joseph Rocha	1857	50	Du	7.4	36	-	-	Outwash	4.45	9- 9-58	-	
34	W9-8e	Willard Morse	1808	60	Du-Dr	178	8-1¼	-	-	do.	-	-	D,S	T 42 8-18-58.
35	W9-8f	Anna M. Delorenzo	1908	40	Du	12.7	36	-	-	do.	7.48	9- 9-58	U	
36	W9-5j	Angelo Delorenzo	-	60	Du-Dn	-	24"-2½"	-	-	Till	3.64	9- 9-58	D	"Iron taste" reported.
37	W9-7c	H. W. Newhall	1858	60	Du	4.0	27	-	-	Outwash	.45	9- 9-58	-	

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material		Water level		Use	Remarks
									Character	Geologic unit	Depth	Date of measurement		
		PLYMOUTH COUNTY (Continued)												
		EAST BRIDGEWATER (Continued)												
38	W9-8a	J. Koslowsky	-	60	Du	15.1	34	-	-	Till	12.41	9- 9-58	D,S	T 53 8-19-58.
39	W9-5j	I. Fundalewicz	-	90	Du	18.3	24	-	-	do.	14.87	8-19-58	-	
40	W9-5e	A. P. Grindell	-	90	Du	17.3	35	-	-	Ice-contact deposits	13.03	9- 9-58	D	
41	W9-8a	Town of East Bridgewater	-	70	Du	20.5	-	-	-	do.	16.59	9- 9-58	-	
42	W9-8e	Myron Hayden	-	65	Dr	60	-	14	-	Bedrock	15	10-18-54	D	Y 10; dd 20.5.
43	W9-4e	George Malovin	-	100	Dr	40	-	15	-	do.	5	1- 8-55	D	Y 5.
44	W9-6d	H. F. McCarthy	-	100	Dr	102	-	11	-	do.	13	2-14-58	D	Y 5.
46	W9-8d	U. S. Geol. Survey	1956	55	A	38	4½	-	-	Outwash	-	-	T	L.
47	W9-8e	do.	1956	50	A	35	4½	-	-	do.	-	-	T	L.
48	W9-8e	do.	1956	70	A	49	4½	-	-	do.	-	-	T	L.
49	W9-8e	do.	1956	59	A	12	4½	-	-	do.	-	-	T	L.
50	W9-8d	do.	1957	90	A	86	4½	86R	-	Ice-contact deposits	-	-	T	L.
52	W9-9d	do.	1957	50	A	39	4½	-	-	Outwash	8	9-19-57	T	L.
53	W9-9d	do.	1957	40	A	47	4½	-	-	do.	13	9-20-57	T	L.
54	W9-5e	do.	1958	85	A	6	4½	6R	-	Till	-	-	T	L.
55	W9-5g	do.	1958	80	A	29	4½	29R	-	Outwash	-	-	T	L.
57	W9-4f	do.	1958	95	A	28	4½	-	-	Ice-contact deposits	-	-	T	L.
		HALIFAX												
7	X8-1d	Hayward	-	40	Dr	172	6	-	-	Bedrock	-	-	D	
27	X9-8e	U. S. Geol. Survey	1957	62	Dr	17.6	1¼	-	Sand	Outwash	10.13	9- 9-58	O	T 45.5 4-15-57. W. Yields water freely with pitcher pump.
28	W9-9j	-	-	86	Du	39.0	60	-	-	Ice-contact deposits	32.26	9- 9-58	O	W.
29	X9-8h	U. S. Geol. Survey	1957	63	A	27.9	1¼	-	Sand	Outwash	13.00	9- 9-58	O	L. W.
30	X9-8e	do.	1957	60	A	87	2½	-	-	do.	20	9- 3-57	T	L.
31	X9-8d	do.	1957	90	A	77	2½	77	-	do.	-	-	T	L.
32	X9-8h	do.	1957	90	A	75	2½	75	-	do.	-	-	T	L.
33	X9-8g	Halifax Garden Co.	1946	60	GP	43	8	43(?)	Sand and gravel	do.	0.0	-50	In	Y 500; dd 43 after ½ hour pumping. Reported high in iron.
35	X9-8g	Brandon Dalton	-	75	Du	22.5	22	-	Sand	do.	17.85	9- 9-58	D	
37	W9-9j	-	1958	90	Dr	150	-	150	Sand and clay	do.	-	-	D	L. Y 5.
38	W8-3c	Oscar Riesberg	-	75	Dr	190	-	160	-	Bedrock	32	3-25-57	D	Y 10.
39	X8-1f	Francis B. Gee	1958	60	Dr	150	-	45	-	do.	7.5	5-29-57	D	Y 9.
		HANOVER												
4	X9-2a	Gerald Vachon	1952	-	Dr	125	6	45	-	Bedrock	14	4- -52	-	Y 5.
61	X9-1c	Town of Hanover	1957	100	Dn	16	2½	16R	-	Outwash	-	-	T	L.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
PLYMOUTH COUNTY (Continued)														
HANOVER (Continued)														
62	X9-1c	Town of Hanover	1957	115	Dn	16	2½	16R	-	Outwash	-	-	T	L.
64	X9-1c	do.	1957	100	Dn	24	2½	31R	Fine sand and gravel	Ice-contact deposits	6	7-23-57	T	L. Y 3 at 24 feet.
66	X9-2e	do.	1957	25	Dn	23	2½	23R	-	do.	-	-	T	L.
70	X9-2a	do.	1957	70	Dn	16	2½	16R	-	do.	-	-	T	L.
71	X9-2a	do.	1957	65	Dn	36	2½	36R	Fine sand and gravel	do.	9.6	7-26-57	T	L. Y 5 at 32 feet.
76	X9-1b	do.	1957	90	Dn	76	2½	76R	-	do.	-	-	T	L.
77	W10-9j	do.	1957	75	Dn	34	2½	34R	-	-	-	-	T	L.
78	W10-9j	do.	1957	75	Dn	22	2½	22R	-	-	-	-	T	L.
79	X9-1a	do.	-	80	Dn	36	2½	36R	Fine sand and gravel	Outwash	8.1	7-31-57	T	L. Y 20 at 32 feet.
81	X9-1d	do.	-	65	Dn	66	2½	66R	Sand and gravel	do.	17.0	8- 1-57	T	L. Y 50 at 48 feet.
82	X9-1d	do.	-	65	Dn	62	2½	62R	-	do.	9.2	8- 2-57	T	L.
83	X9-1d	do.	-	65	Dn	-	2½	-	-	do.	6.5	8- 2-57	T	L.
84	W9-3f	U. S. Geol. Survey	1957	80	A	26	-	26R	-	do.	11	9-19-57	T	L.
85	W9-3j	do.	1957	110	A	33	-	-	-	Ice-contact deposits	-	-	T	L.
HANSON														
3	X9-4g	Plymouth County Sanatorium	-	150	Dr	214	6	102	-	Bedrock	60	11-23-39	PS	Y 50.
4	X9-4g	Cranberry Canners Inc.	-	85	Dn,J	50	2½	-	Sand	Ice-contact deposits	-	-	T	L.
5	W9-9c	do.	-	60	Dn,J	31	2½	-	-	Outwash	-	-	T	L.
6	W9-6j	do.	-	60	Dn,J	39	2½	-	Gravel	Ice-contact deposits	-	-	T	L. Y 25 for 3 hours.
7	W9-6j	do.	-	60	Dn,J	36	2½	-	-	Outwash	-	-	T	L.
8	W9-6j	do.	-	80	Dn,J	20	2½	-	-	Ice-contact deposits	-	-	T	L.
9	W9-6j	do.	-	65	Dn,J	20	2½	-	-	Outwash	-	-	T	L.
10	W9-6j	do.	-	80	Dn,J	36	2½	-	-	Ice-contact deposits	-	-	T	L.
11	W9-6j	do.	-	80	Dn,J	24	2½	-	-	do.	-	-	T	L.
12	W9-9c	do.	-	60	GP	42	10	-	-	Outwash	3	-	In	Y 425; dd 18. Iron reported.
13	W9-3h	Wesley Place	-	99	Du	-	48	-	-	Till	-	-	U	
22	X9-4h	U. S. Geol. Survey	1957	91.91	A	45.1	2½	-	Sand, medium	Outwash	20.49	9- 9-58	O	L. C. Log to 75'.
23	X9-4b	S. H. Kelliher	-	93	Du	19.2	24	-	-	do.	15.93	9- 9-58	O	W.
25	X9-7a	U. S. Geol. Survey	1957	70	A	18	2½	18R	-	do.	15	8-27-57	T	L.
29	X9-4h	P. Nawazelski	-	75	Du	11.0	24	-	Sand	Ice-contact deposits	10.21	9- 9-58	U	
31	X9-7b	A. Barros	-	80	Du	12.3	21	-	do.	Outwash	8.10	9- 9-58	U	
33	X9-7e	Leo Crosby	-	68	Du	11.5	24	-	do.	do.	7.52	9- 9-58	D	

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
							PLYMOUTH COUNTY (Continued)							
							HANSON (Continued)							
34	X9-7e	W. Irving	-	77	Du	19.4	24	-	Sand	Outwash	13.00	9- 9-58	U	
38	X9-7c	-	1914	80	Du	-	-	30(?)	Clay, sand, and rock	Ice-contact deposits	-	-	D	Iron reported.
40	W9-9c	Cape Cod Cranberry Company	-	65	Dr	145	6	90	Sand and gravel	Outwash	4	-57	In	T 45 7-57. Y 220.
41	X9-4d	MacDonald	-	87	Du	17.5	36	-	-	do.	15.73	9- 9-58	U	Reported dry in summer.
43	X9-4e	P. E. Foster	-	98	Du	15.8	36	-	-	Ice-contact deposits	15.90	9- 9-58	-	
44	X9-4f	A. Stone	-	85	Du	19.7	34	-	Sand	Outwash	14.35	9- 9-58	U	
45	X9-4a	C. G. Whitney	-	62	Du	14.0	27	-	Sand (?)	Ice-contact deposits	10.30	9- 9-58	O	W.
46	X9-1h	U. S. Geol. Survey	1958	45	Dn	8.5	1¼	-	Sand, fine	Outwash	4.90	9- 9-58	O,A	Well destroyed.
47	W9-6d	Clyde Lathrop	-	80	-	13.5	4	-	Clayey sand	Till	7.16	9- 9-58	-	
48	W9-6c	Alexander Brennan	-	98	Du	16.4	30-60	-	-	Outwash	10.64	9- 9-58	-	
49	W9-6e	E. Josephson	1908	86	Du	17.6	12	-	-	Till	10.48	9- 9-58	-	
50	W9-6e	R. Hopkins	-	60	Du	-	36	-	-	Outwash	6.96	9- 9-58	-	Water reported hard.
51	W9-9b	V. McAvoy	1908	77	Du	15.7	24	-	-	Till	3.88	9- 9-58	-	
52	W9-9b	E. Bearce	1916	80	Du-Dr	28	24	-	-	Ice-contact deposits	-	-	D	
53	W9-6c	A. Delprete	-	80	Dr	160	-	34	-	Bedrock	-	-	D	Y 20.
54	X9-7c	Art Landry	-	80	Dr	29	-	29	-	Outwash(?)	-	-	D	
55	W9-6h	U. S. Geol. Survey	1958	70	A	29	2½	-	Sand, medium to fine	Ice-contact deposits	7.84	10- 8-58	O	L. Y 6. W.
56	X9-4b	do.	1958	50	A	14.1	2½	-	Fine sand	Outwash	6.35	3-16-59	O	L. Y 1 after 5 hours pumping.
57	X9-4c	do.	1958	70	Dn,J	51	2½	-	-	Ice-contact deposits	7.16	7-30-58	T	L.
58	W9-6a	Roger Keene	-	135	Dr	40	-	12	-	Bedrock	4	1-15-55	D,S	Y 4.
67	X9-7e	U. S. Geol. Survey	1958	70	A	44	-	-	-	Outwash	-	-	T	L.
68	W9-6j	do.	1958	75	A	33	-	33	-	Bedrock	-	-	T	L.
72	W9-6j	do.	1958	60	A	33	-	33	-	do.	-	-	T	L.
							KINGSTON							
7	X9-8j	Kingston Water Dept.	-	55	-	54	2½	-	Sand, gravel, and clay	Outwash	3	-	T	L. Y 50.
43	X8-3c	do.	1950	55	-	81	8	81	Gravel	-	-	-	T	L. Y 250; dd 15.2.
50	X9-9g	Robert Lee	-	56	Du	11.7	-	-	-	Outwash	11.5	6-14-57	-	
68	X9-9g	C. W. Pickett	-	74	Du	23.9	36	-	-	do.	20.93	9- 9-58	O	
72	X9-9h	G. Lumpkins	-	60	Du	17.2	-	-	-	do.	12.81	9- 9-58	D	
73	X9-9j	H. C. Armour	-	57	Du	10.2	-	-	-	do.	4.82	9- 9-58	U	
88	X9-9j	E. Nolan	-	52	Du	15.8	24	-	-	do.	11.28	9- 9-58	D	Iron reported.
91	X9-9d	W. Butterfield	1952	71	Du	4.2	-	-	-	do.	1.31	9- 9-58	U	Reported hard.
92	X9-9e	Ralph Imley	-	68.5	Du	12.1	-	-	-	do.	8.21	9- 9-58	O	W.
93	X9-8j	U. S. Geol. Survey	1957	80	A	10	2½	10R	-	do.	-	-	T	L.
94	X9-8j	do.	1957	50	A	31	2½	31R	-	do.	20	9- 9-57	T	L.
95	X9-9g	do.	1958	-	Dn	71	2½	-	Sand and gravel	do.	10.0	8-20-58	T	L. Y 48 for 1 hour; dd 0.26.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
PLYMOUTH COUNTY (Continued)														
MARSHFIELD														
30	X9-3f	U. S. Geol. Survey	1958	100	A	22.8	2½	-	Sand, fine	Outwash	12.16	9- 9-58	O	L. Y 18 after pumping 55 minutes. W.
31	X9-3f	do.	1957	-	A	58	4½	58R	-	do.	-	-	T	L.
PEMBROKE														
2	X9-2d	Town of Pembroke	-	20	Dn	16.6	2½	16.6R	-	Till	-	-	T	L.
3	X9-2d	do.	-	20	Dn	16.5	2½	16.5R	-	do.	-	-	T	L.
4	X9-2d	do.	-	20	Dn	17.1	2½	17.1R	-	do.	-	-	T	L.
5	X9-5c	do.	-	20	Dn	25.3	2½	25.3R	-	do.	-	-	T	L.
6	X9-5b	do.	-	35	Dn	33	2½	33R	-	Outwash	-	-	T	L.
7	X9-5b	do.	-	25	Dn	56	2½	56R	-	do.	-	-	T	L.
8	X9-5e	do.	-	35	Dn	34.8	2½	34.8R	-	do.	-	-	T	L.
9	X9-5e	do.	-	35	Dn	40.7	2½	40.7R	-	do.	-	-	T	L.
10	X9-5e	do.	-	30	Dn	51.6	2½	51.6R	-	do.	-	-	T	L.
11	X9-5f	do.	-	30	Dn	46.7	2½	46.7R	-	Till	-	-	T	L.
12	X9-8b	do.	-	50	Dn	31.4	2½	31.4R	-	Outwash	-	-	T	L.
13	X9-8b	do.	-	50	Dn	35.1	2½	35.1R	-	do.	-	-	T	L.
14	X9-8b	do.	-	50	Dn	36.5	2½	36.5R	-	do.	-	-	T	L.
15	X9-8b	do.	-	50	Dn	50.5	2½	50.5R	Sand and gravel	do.	-	-	T	L. Y 21; dd 1.
16	X9-5f	do.	-	35	Dn	25.5	2½	25.5R	-	do.	-	-	T	L.
17	X9-5h	do.	-	60	Dn	74.4	2½	74.4R	Sand and gravel	do.	-	-	T	L. Specific capacity 15 gpm per foot.
18	X9-8b	do.	-	60	Dn	52.5	2½	52.5R	-	do.	-	-	T	L.
19	X9-5h	do.	-	60	Dn	47.5	2½	47.5R	-	do.	-	-	T	L.
20	X9-3d	do.	-	10	Dn	49.5	2½	49.5R	-	Till	-	-	T	L.
21	X9-3d	do.	-	10	Dn	29	2½	29R	-	Ice-contact deposits	-	-	T	L.
22	X9-3g	do.	-	10	Dn	37.5	2½	37.5R	-	do.	-	-	T	L.
23	X9-3g	do.	-	25	Dn	14.5	2½	14.5R	-	do.	-	-	T	L.
24	X9-5b	Ash	-	37	Du	10.0	24	-	-	Till	6.96	9- 9-58	D	
32	X9-5c	Town of Pembroke	-	10	Dn	25.7	2½	25.7R	-	do.	-	-	T	L.
33	X9-5c	do.	-	10	Dn	31.8	2½	31.8R	-	do.	-	-	T	L.
34	X9-5c	do.	-	20	Dn	8.0	2½	8.0R	-	do.	-	-	T	
35	X9-5c	do.	-	10	Dn	15.7	2½	15.7R	-	do.	-	-	T	L.
36	X9-5c	do.	-	10	Dn	7.7	2½	7.7R	-	do.	-	-	T	L.
38	X9-4j	do.	-	60	Dn	44.6	2½	44.6R	-	Outwash	2.50	-53	T	L.
41	X9-5h	do.	-	60	GP	63	14-36	-	Sand and gravel	do.	6.14	4- 3-57	PS	Y 700. C.
55	X9-8f	E. C. Carroll	-	95	Du	19.5	24	-	Sand	do.	18.60	9- 9-58	D	Iron reported.
59	X9-8c	D. Williams	1949	105	Dr	225	4	-	-	Bedrock	-	-	D	
60	X9-8c	Paul Cotty	-	110	Dr	98	4	-	-	do.	-	-	D	
67	X9-8c	O. Maki	1953	110	Dr	131	-	18	-	do.	21	8-26-54	D	Y 2.
68	X9-8c	J. Gabriel	1954	110	Dr	160	4	-	-	do.	-	-	D	
77	X9-8c	E. Turner	-	111	Du	11.7	30	-	-	Outwash	9.58	9- 9-58	D	

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material		Water level		Use	Remarks
									Character	Geologic unit	Depth	Date of measurement		
PLYMOUTH COUNTY (Continued)														
PEMBROKE (Continued)														
83	X9-6g	R. Smith	1953	104	Dn	23	$1\frac{1}{4}$	-	Gravel and sand	Outwash	20	6-24-57	D	
85	X9-6g	A. Lidington	-	94	Du	8.1	-	-	-	do.	6.40	9- 9-58	D	
97	X9-9b	M. J. Wood	1956	78	Du	15	-	-	Sand	do.	8.46	9- 9-58	D	Iron reported.
99	X9-8c	R. Chambers	1956	120	Dr	151	6	-	-	Bedrock	-	-	D	
102	X9-5h	J. Piispanen	-	72	Du	9.1	-	-	-	Outwash	16.32	9- 9-58	D	Iron reported.
117	X9-6d	N. McFarlane	-	110	Du	14.3	-	-	Sand	do.	11.28	9- 9-58	U	
122	X9-5f	N. Peterson	1918	86	Du	27.1	-	-	-	do.	16.42	9- 9-58	U	
128	X9-5e	Shepherd & Sons	1913	60	Du	23.3	-	-	Sand	do.	9.53	9- 9-58	D,Ir	
132	X9-5c	F. H. Merrill	1900	36	Du	24.8	-	-	-	Till	5.45	9- 9-58	O	Y 130; dd 17 after 2 minutes pumping. C. W.
140	X9-5b	R. Ettleman	-	48	Du	-	-	-	Sand	Outwash	7.99	9- 9-58	U	
145	X9-6d	E. Jobling	1953	100	Dr	100	6	30	-	Bedrock	-	-	D	Y 3.
148	X9-3g	G. West	-	24	Du	20.7	36	-	-	Till	4.80	9- 9-58	U	Iron reported.
152	X9-6e	R. Hammond	-	115	Du	18.5	-	-	-	do.	9.55	9- 9-58	U	
162	X9-6c	Henry Lee	-	36	Du	13.8	-	-	-	do.	9.29	9- 9-58	D	
170	X9-3h	H. C. Miller	-	75	Du	50	-	-	-	Outwash	42.16	9- 9-58	U	
175	X9-2j	W. Scanlon	-	27.07	Du	13.6	-	-	-	Ice-contact deposits	7.08	9- 9-58	O	W.
186	X9-3e	W. Moffat	-	110	Du	23.9	-	-	-	Till	5.98	9- 9-58	D	
193	X9-3d	E. H. Manter	-	45	Du	21	-	-	-	Ice-contact deposits	18.20	9- 9-58	D	
195	X9-3d	R. Emery	1850	31	Du	14.0	-	-	-	Till	8.05	9- 9-58	U	
196	X9-2f	G. Stanly	-	59	Du	22.7	-	-	-	Ice-contact deposits	12.79	9- 9-58	U	
202	X9-2f	F. Arnold	-	65	Du	17.4	-	-	-	Till	10.43	9- 9-58	O	W.
215	X9-2f	W. G. Holmes	-	30	Du	17.23	36	-	-	do.	9.95	7- 9-57	D	C.
216	X9-2f	S. W. Holmes	-	35	Du	14.4	36	-	-	do.	10.28	9- 9-58	U	
217	X9-9a	-	-	111	Du	12.5	30	-	-	Outwash	9.82	9- 9-58	O	W.
218	X9-7c	Robert Bailey	-	74	Du	16.7	36	-	-	Till	6.21	9- 9-58	O	W.
219	X9-6b	-	-	108	Du	19.2	36	-	-	do.	13.32	9- 9-58	O	W.
220	X9-5f	Abraham Ash	-	75	Du	40.3	36	-	Sand	Outwash	39.47	12- 2-57	O	
222	X9-8a	U. S. Geol. Survey	1957	80	A	87	$4\frac{1}{2}$	-	-	do.	25	8-28-57	T	L.
223	X9-8b	do.	1957	115	A	87	$4\frac{1}{2}$	-	-	Ice-contact deposits	-	-	T	L.
224	X9-8b	do.	1957	60	A	64	$4\frac{1}{2}$	64	-	Outwash	7	8-29-57	T	L.
225	X9-8c	do.	1957	110	A	39	$4\frac{1}{2}$	39	-	do.	-	-	T	L.
226	X9-8c	do.	1957	120	A	29	$4\frac{1}{2}$	29	-	do.	15	8-29-57	T	L.
227	X9-9a	do.	1957	115	A	19	$4\frac{1}{2}$	-	-	do.	-	-	T	L.
228	X9-9a	do.	1957	110	A	7	$4\frac{1}{2}$	7R	-	do.	-	-	T	L.
229	X9-9b	do.	1957	90	A	11	$4\frac{1}{2}$	11	-	do.	-	-	T	L.
234	X9-7c	S. Magoun	1921	77	Du	6.5	28	-	Sand	do.	2.37	9- 9-58	U	
235	X9-4j	A. Belknap	-	95	Du	25	30	-	do.	do.	17.76	9- 9-58	U	Iron reported.
239	X9-5a	F. Grilli	-	32	Du	15.1	29	-	Sand and gravel	do.	5.82	5-23-58	O	W.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material		Water level		Use	Remarks
									Character	Geologic unit	Depth	Date of measurement		
		PLYMOUTH COUNTY (Continued)												
		PEMBROKE (Continued)												
240	X9-5h	Town of Pembroke	1958	75	Dn	103	2½	103	Sand and gravel	Ice-contact deposits	10.82	9- 9-58	O	L. Y 40.
241	X9-5a	do.	1958	65	Dn	92	2½	92	-	Outwash	-	-	T	L. Y 40.
245	X9-2g	Sarah Broad	1808	78	Du	15.8	30	-	-	Till	11.07	9- 9-58	D,S	
257	X9-8a	Cape Cod Cranberry Company	-	68	Du	7.6	18	-	Sand and gravel	Outwash	5.71	9- 9-58	U	
260	X9-6a	E. P. Monroe	-	62	Du	23.0	36	-	-	Till	13.89	9- 9-58	U	
261	X9-9b	-	-	110	Du	9.1	30	-	Sand and gravel	Outwash	8.20	9- 9-58	U	
265	X9-6g	U. S. Geol. Survey	1957	120	A	23	4½	23R	-	do.	-	-	T	L.
267	X9-3g	do.	1957	30	A	55	4½	-	-	Ice-contact deposits	12	9- 9-57	T	L.
268	X9-6a	do.	1957	55	A	9	4½	9R	-	Till	-	-	T	L.
271	X9-2f	do.	1958	65	A	43	4½	-	-	Ice-contact deposits	-	-	T	L.
275	X9-3j	do.	1958	50	A	29	4½	-	-	Till	-	-	T	L.
277	X9-5h	do.	1958	70	Dn,Dr	120	2½	110	-	Bedrock	22.24	7-14-58	T	L. Y 13.
278	X9-8a	do.	1958	80	Dn,Dr	220	2½	216.7	-	do.	15.72	7-30-58	T	L. Would not pump.
279	X9-5a	do.	1958	45	Dn	71.6	2½	70	-	do.	18.20	8-13-58	T	L. Y 1 at 28 feet; no dd.
		PLYMPTON												
13	X9-8h	U. S. Geol. Survey	1957	80	A	7	2½	-	-	Till	-	-	T	L.
28	X9-8h	M. Keevey	-	73	Du	17.7	-	-	-	do.	7.28	9- 9-58	U	
		ROCKLAND												
1	W9-3b	Town of Rockland	1953	80	Dn	37.7	2½	37.7R	-	Ice-contact deposits	-	-	T	L.
2	W9-3b	do.	1953	80	Dn	45	2½	-	-	Till	-	-	T	L.
3	W9-3b	do.	1953	75	Dn	15.5	2½	15.5R	-	Ice-contact deposits	-	-	T	L.
5	W9-3b	do.	1953	80	Dn	68	2½	-	Sand and gravel	Outwash	-	-	T	L. Y 25 at 45 feet.
6	W9-3b	do.	1953	90	Dn	45.8	2½	45.8R	-	do.	-	-	T	L.
7	W10-9h	do.	1953	85	Dn	49	2½	49R	-	-	-	-	T	L. C.
8	W10-9h	do.	1953	85	Dn	40	2½	40R	Clay, sand, and gravel	-	-	-	T	L. Y 50.
9	W10-9h	do.	1953	85	Dn	51	2½	-	Sand and gravel	-	-	-	T	L. Y 50 at 38 feet.
10	W10-9h	do.	1953	85	Dn	38	2½	-	-	-	6.67	-53	T	L. Y 50.
11	W10-9g	do.	1953	95	Dn	21.2	2½	21.2R	-	-	-	-	T	L.
12	W10-9g	do.	1953	95	Dn	30.8	2½	30.8R	-	-	-	-	T	L.
13	W10-9h	do.	1953	100	Dn	45.8	2½	45.8R	-	-	-	-	T	L.
14	W10-9h	do.	1953	100	Dn	49.5	2½	49.5R	Sand and gravel	-	-	-	T	L. Y 20 at 23 feet, Y 15 at 40 feet.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
							PLYMOUTH COUNTY (Continued)							
							ROCKLAND (Continued)							
15	W10-9h	Town of Rockland	1953	90	Dn	31	2½	31R	-	-	-	-	T	L.
16	W10-9h	do.	1953	90	Dn	24	2½	24R	-	-	-	-	T	L.
17	W10-9h	do.	1953	90	Dn	38.5	2½	38.5R	-	-	-	-	T	L.
42	W10-8h	do.	1953	130	Dn	17.7	2½	17.7R	-	-	-	-	T	L.
43	W10-8h	do.	1953	130	Dn	18.7	2½	18.7R	-	-	-	-	T	
46	W10-9g	do.	1953	110	Dn	16	2½	16R	-	-	-	-	T	L.
47	W10-9g	do.	1953	110	Dn	19.8	2½	19.8R	-	-	-	-	T	
48	W10-9g	do.	1953	100	Dn	27	2½	27R	-	-	-	-	T	L.
49	W10-9h	do.	1953	120	Dn	21	2½	21R	-	-	2.33	-53	T	L.
50	W10-9h	do.	1953	125	Dn	20	2½	20R	-	-	-	-	T	L.
51	W10-9h	do	1953	125	Dn	23.5	2½	23.5R	-	-	-	-	T	
52	W10-9h	do	1953	90	Dn	9	2½	9R	-	-	-	-	T	L.
53	W10-9h	do	1953	90	Dn	32	2½	32R	-	-	-	-	T	L.
54	W10-9h	do	1953	110	Dn	19.3	2½	19.3R	-	-	-	-	T	L.
55	W10-9h	do	1953	110	Dn	19.6	2½	19.6R	-	-	-	-	T	
56	W10-9h	do	1953	95	Dn	26.3	2½	26.3R	-	-	-	-	T	L.
57	W9-2c	do	1953	105	Dn	58.8	2½	58.8R	-	-	-	-	T	L.
58	W9-2b	do	1953	120	Dn	48	2½	48R	-	Ice-contact deposits	-	-	T	L.
59	W9-2c	do.	1953	115	Dn	17	2½	17R	-	Till	-	-	T	L.
61	W9-2c	do.	1953	105	Dn	19	2½	19R	-	Outwash	-	-	T	L.
63	W10-8h	do.	1953	130	Dn	15.3	2½	15.3R	-	-	-	-	T	L.
64	W10-8h	do.	1953	130	Dn	19	2½	19R	-	-	-	-	T	L.
65	W10-8h	do.	1953	130	Dn	23	2½	23R	-	-	-	-	T	L.
66	W10-8h	do.	1953	115	Dn	17½	2½	17½R	-	-	-	-	T	L.
68	W10-8j	do.	1953	140	Dn	21	2½	21R	-	-	-	-	T	L.
70	W9-2b	do.	1953	110	Dn	17	2½	17R	-	Outwash	-	-	T	L.
72	W9-2c	do.	1953	105	Dn	18	2½	18R	-	Ice-contact deposits	-	-	T	L.
73	W9-2b	do.	1953	105	Dn	24	2½	24R	-	Outwash	-	-	T	L.
74	W9-3e	Clark-Babbett Co.	1957	110	Dr	230	8	30	-	Bedrock	15	10- -57	In	Y 120; dd 8 after 24 hours pumping. Fe: 1.1 Nov.1957; .3 Jan., 1.1 Feb. 1958.
75	W9-2b	Towns of Abington and Rockland	1953	105	Dn	26	2½	26R	-	Outwash	-	-	T	
77	W9-3b	U. S. Geol. Survey	1958	80	A	25	4½	-	-	do.	-	-	T	L.
							WEST BRIDGEWATER							
3	V9-9d	Town of West Bridgewater	1945	65	Dn	46	2½	-	Clay, sand, and gravel	-	-	-	T	L. Y 12.
5	V9-9f	do.	1945	65	Dn	30.5	2½	-	Sand and gravel	-	-	-	T	L. Y 50 at 29½ feet.
8	W9-7d	do.	1945	55	Dn	39.5	2½	-	do.	Outwash	2.7	6- -45	T	L. Y 40.
10	W9-7a	do.	1945	95	Dn	26	2½	-	Sand	Ice-contact deposits	3.5	6- -45	T	L. Y 25.

Table 2.--Records of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

Well no.	Location	Owner or user	Year completed	Altitude of land-surface datum (feet)	Type of well	Depth of well (feet)	Diameter of well (inches)	Depth to bedrock or refusal (feet)	Principal water-bearing material: Character	Principal water-bearing material: Geologic unit	Water level: Depth	Water level: Date of measurement	Use	Remarks
PLYMOUTH COUNTY (Continued)														
WEST BRIDGEWATER (Continued)														
12	W9-7a	Town of West Bridgewater	1945	95	Dn	86	2½	86	-	Ice-contact deposits	-	-	T	L. No water.
13	W9-7a	do.	1945	80	Dn	38	2½	-	Sand and gravel	do.	3.5	6- -45	T	L. Y 35 at 38 feet; dd 7.
17	W9-7d	Harold Colby	1948	90	Dr	80	6	57	-	Bedrock	15	11- -48	-	
55	V9-8e	E. C. Clark	-	80	Dr	64	6	8	-	do.	8	-	-	Y 15.
56	V9-8e	C. P. Johnson	-	90	Dr	77	6	28	-	do.	5.5	-	-	Y 5.
75	V9-9c	U. S. Geol. Survey	1957	120	Dn	27.3	1¼	63	Sand	Ice-contact deposits	12.78	9- 9-58	O	L. W.
76	W9-7b	C. A. Marble	1908	90	Du	13.2	31	-	-	Till	11.08	9- 9-58	-	
77	V9-6h	B. C. Copeland	1918	96	Du	17.1	60	-	-	-	7.10	9- 5-58	D,S	
WHITMAN														
1	W9-5b	Shepherd & Sons	-	115	Dr	80	-	12	-	Bedrock	8	-	In	Y 20.
2	W9-5a	Blacksmith Shop	-	115	Dr	142	8	11	-	do.	4.5	-	C	
3	W9-5b	Commonwealth Shoe and Leather Co.	-	95	Du	16.5	192	-	-	Outwash	3.40	9- 9-58	O	W.
4	W9-5b	do.	-	105	Dr	325	-	50	-	Bedrock	8.31	9- 9-58	O	W.
5	W9-2h	U. S. Geol. Survey	1957	80	A	40	4½	40R	-	Ice-contact deposits	8	9-17-57	T	L.
6	W9-2g	M. F. Kelley	-	118	Du	10.5	32	-	-	Till	5.27	9- 9-58	O	T 64. 8-14-58.
7	W9-4c	Harold Smith	1900	104	Du	16.9	36	-	-	do.	7.79	9- 9-58	-	
8	W9-2j	Sandy Realty Co.	-	91	Du	14.1	12	-	-	Outwash	4.96	9- 9-58	-	
9	W9-2j	J. M. Zande	1922	97	Du	18.6	24	-	-	Till	8.12	8-20-58	D	Water reported hard.
10	W9-5c	W. Peterson	-	70	Du	3.4	16	-	-	do.	2.35	9- 9-58	-	
12	W9-5c	U. S. Geol. Survey	1957	65	A	35	4½	35R	-	Outwash	-	-	T	L.
13	W9-2h	do.	1957	75	A	37	4½	37	-	do.	-	-	T	L.
14	W9-5b	do.	1957	90	A	23	4½	23R	-	do.	7	9-18-57	T	L.
15	W9-2h	do.	1957	85	A	26	4½	26R	-	do.	8	9-19-57	T	L.
17	W9-5a	do.	1958	90	A	23	4½	23	-	do.	-	-	T	L.
18	W9-2h	do.	1958	80	Dn,Dr	37	2½	29	-	Bedrock	4.00	7-24-58	T	L.
NORFOLK COUNTY														
AVON														
1	V10-8j	C. Maloney	-	200	Du	12.0	36	-	-	Till	10.42	9- 9-58	O	W.
2	V9-2e	C. N. Stampas	1949	225	Dr	64	-	60	-	Bedrock	11.65	9- 9-58	D	Y 20.
3	V10-9g	A. Marino	-	160	Dr	87	-	20	-	do.	-	-	D	Y 10.
HOLBROOK														
2	W10-7g	Harvey Deraux	-	164	Du	-	-	-	-	-	9.62	9- 9-58	-	
3	V10-9h	Avon Sole Co.	1958	145	Dr	36	-	-	Sand and gravel	-	-	-	In	L.
STOUGHTON														
101	V9-2e	William Fedora	1956	230	Du	9.9	36	-	Sand and clay	Till	6.24	9- 9-58	Ir	
103	V9-2d	-	-	260	Du	15.8	-	-	-	do.	15.55	9- 9-58	-	

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts

(Thicknesses and depths below land-surface are given in feet)

	Thickness	Depth
ABINGTON 16. Alt. about 105 ft.		
Driller's log.		
Loam	2½	2½
Gravel and sand, some clay	12½	15
Sharp gravel and white clay	17	32
Refusal		at 32
ABINGTON 17. Alt. about 110 ft.		
Driller's log.		
Loam	1½	1½
Sharp gravel, some sand	30½	32
Hardpan	3	35
Refusal		at 35
ABINGTON 20. Alt. about 105 ft.		
Driller's log.		
Loam	1	1
Hard clay	6	7
Sand and gravel	9	16
Fine sand	3	19
Soft rock	3	22
Refusal		at 22
ABINGTON 22. Alt. about 110 ft.		
Driller's log.		
Loam	1	1
Hard clay	8	9
Sand and gravel	6	15
Fine sand and clay	2	17
Soft rock	3	20
Refusal		at 20
ABINGTON 24. Alt. 87 ft.		
Driller's log.		
Medium grained sand, fine gravel, trace of silt. Medium compact	20	20
Refusal		at 20
ABINGTON 25. Alt. 87 ft.		
Driller's log.		
Medium grained sand, loose	6	6
Medium grained sand, fine gravel. Medium compact	14	20
Refusal		at 20
ABINGTON 35. Alt. 89 ft.		
Geologist's log of auger hole.		
Sand, very fine	2	2
Sand, coarse with some fine gravel and fine material, poor sorting	3	5
Sand, very coarse, with fine gravel and some fines, yields water well, fair sorting	5	10
Sand, very coarse, fine gravel, well sorted	5	15
Fine gravel, well sorted	16	31
Hard	2	33
Bedrock		at 33
Bedrock outcrop 2000' to East.		
ABINGTON 41. Alt. about 75 ft.		
Geologist's log of auger hole.		
Sand, very fine, some clayey streaks	4	4
Sand, light buff, very fine	3	7
Gravel and sandy clay, poorly sorted	1	8
Gravel, angular to subangular, coarse, fair sorting	3	11
Sand, coarse, poor to fair sorting, some gravel	3	14
Sand, very coarse, well sorted.	12	26
Gravel, fine, well sorted	4	30
Same, little finer	5	35
Gravel, coarse, well sorted, some finer material	4	39
Refusal on boulders		at 39
ABINGTON 42. Alt. about 85 ft.		
Geologist's log of auger hole.		
Sand, brown, fine	6	6
Sand, brown, well sorted, fine, some clay	8	14
Clay layer--drills hard	1	15
Some sand, more clay--drills hard--till?	3	18
Boulders	1	19
Sand, fine to coarse grained, clayey, clay content increases with depth	4	23
Refusal on probable boulders		at 23
ABINGTON 43. Alt. about 80 ft.		
Geologist's log of auger hole.		
Sand, tan, very fine, some coarse grains	1	1
Silt, brown, followed by pebbles and coarse sand	2	3
Clay, gray with iron streaks	5	8
Sand, fine, clayey	17	25
Same, hard	3	28
Refusal		at 28
ABINGTON 44. Alt. about 140 ft.		
Geologist's log of auger hole.		
Soil zone	2	2
Sand and cobbles, unsorted, some boulders, hard drilling	6	8
Clay, dry, sandy	7	15
Clay and sand	2	17
Quit at 17 feet.		
BRIDGEWATER 23. Alt. about 30 ft.		
Driller's log.		
Topsoil	3	3
Sand and gravel	15	18
Sand, fine	2	20
Sand and gravel	15	35
Sand, gravel, and clay	5	40
Sand, fine; and gravel	11	51
Sand, gravel, and clay	4	55
Sand, fine	9	64
Sand, fine; and clay	9	73
BRIDGEWATER 24. Alt. about 50 ft.		
Driller's log.		
Topsoil	3	3
Clay	24	27
Sand and gravel	13	40
Sand, fine	46	86
Hardpan	0.9	86.9
Rock		at 86.9
BRIDGEWATER 25. Alt. about 30 ft.		
Driller's log.		
Topsoil	3	3
Clay	5	8
Sand, fine; and clay	23	31
Sand, fine	3	34
Sand and gravel	2.8	36.8
BRIDGEWATER 26. Alt. about 40 ft.		
Driller's log.		
Topsoil	3	3
Hardpan	5	8
Sand, silty	15	23
Hardpan	2	25
BRIDGEWATER 27. Alt. about 40 ft.		
Driller's log.		
Topsoil	3	3
Sand and clay	23	26
Clay	4	30
Sand and gravel	4	34
Sand, gravel, and clay	2	36
BRIDGEWATER 28. Alt. about 30 ft.		
Driller's log.		
Topsoil	3	3
Sand, fine; and clay	32	35
Sand, gravel, and clay	14	49
Sand and gravel	10	59
Hardpan	2.8	61.8
BRIDGEWATER 64. Alt. about 50 ft.		
Geologist's log of auger hole.		
Fill	1	1
Sand, tan, very fine, well sorted	4	5
Sand, fine, brown	5	10
Sand, silty, and clayey, tan	5	15
Sand and silt, some clay	10	25
Sand, fine, silty	3	28
Sand, fine to medium, fair sorting, harder	2	30
Hard drilling, rocks, sand with finer material	4	34
Probable bedrock		at 34
BRIDGEWATER 65. Alt. about 40 ft.		
Geologist's log of auger hole.		
Soil zone, dark brown	3	3
Clay, gray, streaked	7	10
Clay, blue	5	15
Sand, fine, with clay and silt	5	20
Sand, fine to very fine with silt	13	33
BRIDGEWATER 65.--Continued		
Rocks with very fine sand and silt	6	39
Refusal		at 39
BRIDGEWATER 66. Alt. about 55 ft.		
Sand, brown, grades from medium at top to coarse at bottom, some cobbles, fair to well sorted	6	6
Sand, light tan, fine; becoming medium, some coarse grains	6	12
Sand, brown, medium, well sorted	10	22
Gravel layer at 22 feet immediately followed by sand	3	25
Sand, medium, well sorted	20	45
Sand, coarse, brown	11	56
Sand, olive, coarse with fines	19	75
Harder drilling at 73 feet.		
Rocks		at 77
Refusal		at 79
Blue clay on bit.		
BRIDGEWATER 67. Alt. about 70 ft.		
Geologist's log of auger hole.		
Sand, yellow, brown, very fine, some scattered coarse grains	4	4
Pebbles at 4 feet.		
Followed by sand, medium-coarse, poor sorting	4	8
Sand, well sorted, medium	2	10
Sand, fair sorting, medium, with some coarse grains	5	15
Sand, olive, grades from medium to fine	5	20
Grinding on rocks, sand, fine, well sorted	8	28
Refusal		at 28
BROCKTON 44. Alt. about 140 ft.		
Driller's log.		
Sand, gravel, and boulders	6	6
Hard clay	7	13
Medium sand, clay, fine gravel	5	18
Hard clay, boulders	9	27
Refusal		at 27
DUXBURY 8. Alt. about 100 ft.		
Driller's log.		
Topsoil	1	1
Sand, brown; and clay	13	14
Hardpan	6.2	20.2
Refusal		at 20.2
DUXBURY 9. Alt. about 80 ft.		
Driller's log.		
Sand and gravel	19.6	19.6
Sand, brown; gravel; and clay.	10.9	30.5
Sand, gray, fine to medium; and clay	5.5	36
Hardpan	2	38
DUXBURY 10. Alt. about 90 ft.		
Driller's log.		
Topsoil	.5	.5
Sand, brown; and gravel	19.2	19.7
Refusal		at 19.7
DUXBURY 71. Alt. about 70 ft.		
Driller's log.		
Topsoil	2½	2½
Grayish sand, gravel and clay.	12½	15
Medium fine brown sand and some gravel	6	21
Medium fine sand, some gravel.	7	28
Fine sand, some gravel	6½	34½
Pumped freely; no wash	5½	40
Medium fine sand and gravel	5½	45½
Fine sand, sharp gravel, and clay	5½	51
Fine sand and clay	11	62
Refusal		at 65

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
DUXBURY 72. Alt. 70 ft.		
Driller's log.		
Soft sand	3½	3½
Fine sand, some gravel and clay	11½	15
Medium to fine sand, some gravel and trace of clay	6	21
Fine sand, some gravel and trace of clay	5½	26½
Fine sand; spots of clay	3½	30
Medium sand, some gravel and spots of clay	8	38
Medium sand, some gravel	5	43
Pumped free; no wash	6	49
Medium fine sand, some sharp gravel	5	54
Fine sand and sharp gravel; tight	11½	65½
Fine sand and clay	5½	71
Fine sand, sharp gravel, and clay	14	85
DUXBURY 73. Alt. about 70 ft.		
Driller's log.		
Soft medium fine sand	2½	2½
Medium fine sand, gravel, some clay	23½	26
Medium fine sand, some gravel	12	38
Medium sand and clay	5	43
Medium fine sand	10	53
Medium to fine sand, some sharp gravel	5	58
Fine sand, some clay	5	63
Fine sand and clay	5	68
Refusal		at 68
DUXBURY 75. Alt. about 90 ft.		
Geologist's log of auger hole.		
Sand, light brown, fine	5	5
Sand, dark gray, fine	1	6
Sand, light brown, medium	2	8
Sand, light tan, coarse	14	22
Sand, fine	1	23
Sand and silt, gray	7	30
Silt and sand, more sand than before, color darkens from gray to olive	5	35
Same, but growing more sandy, becomes fine sand between 39-40 feet	5	40
Sand, increasing coarseness from medium to coarse, sorting poor at beginning of interval, becoming good, very coarse at end	5	45
Sand, coarse with some very coarse	15	60
Hard layer, auger jumped	1	61
Sand, brown, coarse to very coarse	4	65
Sand, brown, coarse	10	75
Sand, harder at 76 feet, grows finer downward: coarse to medium, to medium fine, to fine	5	80
Appears same, hard drilling suggests clay however	5	85
Hard drilling: suggests clay bed but sample contains only fine to very fine sand	5	90
Mud composed of very fine sand coming up, rig jumping at 94 feet	4	94
Quit at 94½ feet, very slow going. May be boring into rock. Blue clay on auger bit. Pieces of quartz embedded in clay.		
DUXBURY 76. Alt. about 80 ft.		
Geologist's log of auger hole.		
Soil zone, dark brown	2	2
Sand, grading from poorly sorted to well sorted, medium	3	5
Sand, deep red, medium to coarse, some pebbles around 7 feet	2	7
Sand, brown, medium grading to coarse at bottom, some gravel layers, fair sorting	7	14
Sand, very coarse, well sorted, reddish brown	1	15
As above--very coarse sand to fine gravel	2	17
Refusal on bedrock		at 17
DUXBURY 77. Alt. about 110 ft.		
Geologist's log of auger hole.		
Sand, brown, medium to fine	2	2
Gravel, coarse	1	3
Sand, brown, coarse	2	5
Sand, coarse to medium, fair sorting but getting better	5	10
Same, hard layer at 13 feet, rig jumps--gravel .5" diameter up	3	13
Sand, light brown, medium with some coarse grains	2	15
Sand, light brown, grades from medium to coarse to medium, well sorted	4	19
Hard, auger jumps, bit squeaks on rocks, refusal--probably on bedrock	0	19
DUXBURY 79. Alt. about 70 ft.		
Geologist's log.		
Upper 9"--Sand, brown, fine to very coarse, predominantly medium to fine, predominant grains are rounded to subrounded, well sorted, occasional 1/8" pebbles present		
Lower 3"--Same as above but predominant grain size is medium to coarse with higher percentage of very coarse grains		5- 6.6
Lower 2"--Sand and silt. Sand is very fine to medium, predominantly fine, and well sorted, grains rounded to subrounded and stained purplish red		
Next upper 4"--Predominantly silt, with some clay and fine sand, all grains rounded		
Upper 8"--Sand, brown, well sorted, very fine to medium, some silt predominantly fine sand, grains rounded and spherical. Bands of horizontal dark brown staining 1" thick are in the section, predominant mineral is quartz with mica and other minerals present, occasional blebs of dark black clay material also in section		10- 11.6
Sand and silt, brown, in lenses or bands averaging 1-2" thick. Lenses consist of sand, fine to very fine with some silt. Interbedded with these are lenses of silt with some fine sand, clay. Whole sample stained very dark reddish brown, grains when observed seem to be rounded		15- 16.6
Lower 2"--Sand, brown, with some silt. Sand is very fine to fine, well sorted		
Next 3"--Predominantly silt with fine sand.		
Upper 5"--Predominantly fine sand with silt		
Last 4"--Predominantly silt with some fine sand, wet sample		20- 21.6
Sand and silt, gray; sand is fine to very fine; no gravel, some clay, wet sample		25- 26.6
Sand, fine to very fine, and silt, gray. No gravel, wet sample, some clay		30- 31.6
Top 8"--Sand, very fine, with silt and clay, same as above		
Next 2" down--Sand, brown, with some silt, well sorted. Of this layer about 90% of the sand is coarse to very coarse, well rounded and extremely well sorted. Quartz grains appear to be frosted		
DUXBURY 79.--Continued		
Last 6"--Appears to be like till or decayed rock. Everything from fine silt or clay to coarse angular rock fragments up to ¼". Medium sized grains are rounded to angular		
Sharp transition between all above layers		35- 36.6
Till, clay to gravel, all angular. Appears to contain a great deal of Dedham granodiorite particles. High percentage of large gravel fragments, which are angular		40- 41.6
Till, same as above		45-46.6
Washed sample of till, predominantly coarse sand, very angular. No large pebbles washed up		50- 60
Boulder 6", quartz with blebs of chalcopyrite and alteration products		62.9- 63.3
Bobbed up till, sharp angular fragments, mostly of quartz probably derived from Dedham granodiorite		70- 70.6
Till, gray, from clay to medium gravel, angular, very stiff. Washed sample of till		80- 81.6
Boulder or bedrock cored 1' recovered 5". Dense quartzitic sample with iron stain. No other minerals appear to be in the rock[1]		86.6- 87.6
Till--same as above		87.7
Bobbed sample of till		88.0
Drilled 2', recovered 1'3". Dense quartzitic sample[1]		88.6- 90.0
Washed sample, medium to very sand, all angular, some silt. Probably till		
Bobbed sample from same depth, medium sand to very coarse sand and small pebbles, very angular, some silt and clay present		90.6- 93
Alternate layers of quartz cobbles and till. Driller says he cored through about 3' of rock altogether		93- 99
Drilled 96'-98'.		
Drilled 2', recovered 6"--dense quartz boulder		99- 101
EAST BRIDGEWATER 46. Alt. about 55 ft.		
Geologist's log of auger hole.		
Clay, silt, sand, and pebbles	5½	5½
No return--easy drilling	24½	30
Clay, gray, stiff, and some silt	6	36
Clay, silt, sand, and gravel, blue-gray; very compact	2	38
EAST BRIDGEWATER 47. Alt. about 50 ft.		
Geologist's log of auger hole.		
Muck, black, with some sand	2½	2½
Sand, brown, medium and coarse, and silt	12½	15
Sand, brown, fine, and silt, gray at bottom	9	24
Clay, gray, stiff	5	29
Clay, gray, stiff, with sharp sand and gravel	3	32
Clay, gray, with sand and gravel. Very compact	3	35
EAST BRIDGEWATER 48. Alt. about 70 ft.		
Geologist's log of auger hole.		
Sand, tan, medium, and some coarse and fine gravel	5½	5½
Sand, tan, medium, and a few pebbles	6½	12
Sand, tan, medium	3	15
Sand, tan, coarse to very coarse, with layers of gravel	5	20
Sand, medium, with some coarse to fine gravel	13	33
Clay, gray, and silt	14	47
No return	2	49

[1] Probable quartz vein in Dedham granodiorite.

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
EAST BRIDGEWATER 49. Alt. about 60 ft. Geologist's log of auger hole.		
Fill	2	2
Clay, brown, with silt, sand, and some fine gravel	3	5
Clay, brown, and silt	3½	8½
Till, hard, brown, clayey	3½	12
EAST BRIDGEWATER 50. Alt. about 90 ft. Geologist's log of auger hole.		
Fill	1	1
Sand, tan, medium, well sorted.	3.5	4.5
Sand, tan, fine with pebbles	5.5	10
Sand, tan, fine to medium, well sorted	5	15
Sand, light brown, medium with some coarse grains	5	20
Sand and gravel: medium sand with coarse material, poorly sorted	5	25
Sand and gravel, poorly sorted.	5	30
Sand, coarse, with gravel	8	38
Sand, coarse, well sorted	17	55
Sand, fine	5	60
Sand, fine to medium	10	70
Sand, brown, medium to fine	8	78
Hard, stiff drilling	8	86
Refusal on bedrock or boulder		at 86
Blue clay on bit.		
EAST BRIDGEWATER 52. Alt. about 50 ft. Geologist's log of auger hole.		
Sand, very fine, grading to fine, some clayey lumps	5	5
Sand, tan, fine, well sorted	7	12
Sand, well sorted fine and medium	3	15
Sand, medium, with coarse, well sorted	3	18
Sand, brown, coarse, lots of fines; poor sorting	4	22
Sand, coarse, poor or no sorting with sand, medium, fine, very fine, silt and clay	12	34
Stiff clay	5	39
Stop		at 39
Last 20' of stem covered with gray clay. Last foot of bit has 6" red clay followed by blue clay.		
EAST BRIDGEWATER 53. Alt. about 40 ft. Geologist's log of auger hole.		
Sand, fine, and silt becoming well sorted fine sand at 3'	5	5
Silt	8	13
Silt and clay	22	35
Tough at 36 ft., olive color	10	45
Stiff blue clay	2	47
Quit		at 47
EAST BRIDGEWATER 54. Alt. about 85 ft. Geologist's log of auger hole.		
Sand, brown, fine	2	2
Till, light brownish-gray, sandy	4	6
Refusal		at 6
EAST BRIDGEWATER 55. Alt. about 80 ft. Geologist's log of Auger hole.		
Sand, coarse to very coarse, some gravel	28	28
Clay, silty, gray, stiff	1	29
Refusal		at 29
EAST BRIDGEWATER 57. Alt. about 95 ft. Geologist's log of auger hole.		
Soil, sandy	1	1
Sand, coarse, silty and some fine gravel	23	24
Till, light brown, sandy, compact	4	28
HALIFAX 29. Alt. about 63 ft. Geologist's log of auger hole.		
Soil zone	0.5	0.5
Sand, light brown, fine to medium	4.5	5
Sand, gray, medium to coarse, some fine, poorly sorted	5	10
Sand, brown, poorly sorted, grades from fine to medium with coarse to very coarse, damp	5	15
Sand, dark brown, medium to coarse with silt, balls up, damp	5	20
Rocks at 22 ft., sand, poorly sorted, dark brown, fine to coarse, some pebbles, rig jumping all way, big rock at 25 ft.	6	26
Very stony--mud coming up--very thick, lighter in color, big boulders at 27 ft. keep stalling rig--abandon hole	1	27
HALIFAX 30. Alt. about 60 ft. Geologist's log of auger hole.		
Sand, tan, very fine and silt.	7	7
Sand, dark brown, very fine	1	8
Sand, clayey, brown, moist	2	10
Clay, gray and brown, streaked, varved?	5	15
Clay, brown, sandy, (90% clay; 10% sand) can feel sand grains, no streaks	10	25
Clay, gray, very smooth appearance, can feel some sand	35	60
Becomes dark gray	10	70
Hard; no sample	17	87
Quit drilling		at 87
HALIFAX 31. Alt. about 90 ft. Geologist's log of auger hole.		
Fill	1	1
Sand, light brown, medium to coarse, well sorted, damp	4	5
Sand, light brown, medium, scattered pebbles	5	10
Sand, medium	3	13
Sand, brown, coarse	2	15
Sand, brown, coarse to very coarse grading to medium	5	20
Sand, gray-green, grades from medium to fine	5	25
Sand, light brown (gradual change from gray color), grades from fine to very fine	5	30
Sand, light brown, very fine grading to fine, scattered coarse grains, well sorted	5	35
Sand, light brown, very fine	10	45
Sand, gray-green, very fine	15	60
Sand, light brown, grades from fine to coarse in last foot.	5	65
Sand, brown, coarse with some very coarse; hard layer 70 ft.	5	70
Sand, coarse, grades to medium, hard layers--till?	7	77
Tough blue clay on bit with fragments of fresh rock embedded. Bedrock?		
HALIFAX 32. Alt. about 90 ft. Geologist's log of auger hole.		
Sand, brown, grades from fine to medium, some pebbles	5	5
Sand, medium to coarse, fair sorting	5	10
Sand, brown, changing to olive, fine to medium	5	15
Sand, olive, medium to fine	10	25
Sand, olive, fine, well sorted.	30	55
Sand, same except for scattered medium grains	15	70
Rig jumping, sand coming out, fine to medium, rig riding on solid base at 74 ft.	5	75
HALIFAX 37. Alt. about 90 ft. Driller's log.		
Gravel and sand	72	72
Till, gray, clayey	78	150
Bedrock		at 150
HANOVER 61. Alt. about 100 ft. Driller's log.		
Sand, gravel, and clay	10	10
Hard clay and sharp gravel	6	16
Refusal		at 16
HANOVER 62. Alt. about 115 ft. Driller's log.		
Sand, gravel, and clay	12	12
Hardpan	4½	16½
Refusal		at 16½
HANOVER 64. Alt. about 100 ft. Driller's log.		
Fine sand	8	8
Soft clay	15	23
Fine sand and sharp gravel	1½	24½
Hard clay	6½	31
Refusal		at 31
HANOVER 66. Alt. about 25 ft. Driller's log.		
Hard clay and boulders	23	23
Refusal		at 23
HANOVER 70. Alt. about 70 ft. Driller's log.		
Sand, gravel, and boulders	16	16
Refusal		at 16
HANOVER 71. Alt. about 65 ft. Driller's log.		
Sand, gravel, and boulders	26	26
Fine gray sand and sharp gravel	10	36
Refusal		at 36
HANOVER 76. Alt. about 90 ft. Driller's log.		
Sand and gravel	6	6
Fine yellow sand	32	38
Silt and clay	32	70
Firm gray clay	6	76
Refusal		at 76
HANOVER 77. Alt. about 75 ft. Driller's log.		
Sand and gravel	18	18
Hardpan	16	34
Refusal		at 34
HANOVER 78. Alt. about 75 ft. Driller's log.		
Sand and gravel	9	9
Firm gray clay	13	22
Refusal		at 22
HANOVER 79. Alt. about 80 ft. Driller's log.		
Yellow clay and boulders	7	7
Medium sand and gravel	21	28
Fine gray sand and sharp gravel	6	34
Hardpan	2	36
Refusal		at 36
HANOVER 81. Alt. about 65 ft. Driller's log.		
Sand with scattered gravel	27	27
Soft gray clay	4	31
Sand and gravel	23	54
Fine sand, sharp gravel, and clay	12	66
Refusal		at 66
HANOVER 82. Alt. about 65 ft. Driller's log.		
Sand and gravel	28	28
Fine gray sand	6	34
Firm gray clay	28	62
Refusal		at 62
HANOVER 83. Alt. about 65 ft. Driller's log.		
Sand and gravel	12	12
Sandy clay and sharp gravel	17	29
Fine sand and sharp gravel	3	32
HANOVER 84. Alt. about 80 ft. Geologist's log of auger hole.		
Sand, very fine, light brown; sparse pebbles and gravel; gravel more abundant at 10' - 11'	11	11
Sand, very fine, and silt, light gray	12	23
Clay, bluish-gray	3	26
Probable boulders		at 26
HANOVER 85. Alt. about 110 ft. Geologist's log of auger hole.		
Sand, fine to coarse, and gravel, fine to coarse	7	7
Sand, medium to coarse	18	25
Till, sandy	8	33

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
HANSON 4. Alt. about 85 ft.		
Driller's log.		
Sand, medium	50	50
HANSON 5. Alt. about 60 ft.		
Driller's log.		
Topsoil	4	4
Boulders and hardpan	27	31
HANSON 6. Alt. about 60 ft.		
Driller's log.		
Sand	6	6
Clay	23	29
Gravel	10	39
HANSON 7. Alt. about 60 ft.		
Driller's log.		
Fill	3	3
Clay	25	28
Gravel and hardpan	8	36
HANSON 8. Alt. about 80 ft.		
Driller's log.		
Gravel	12	12
Clay	8	20
HANSON 9. Alt. about 65 ft.		
Driller's log.		
Fill	6	6
Clay	14	20
HANSON 10. Alt. about 80 ft.		
Driller's log.		
Gravel	10	10
Clay	26	36
HANSON 11. Alt. about 80 ft.		
Driller's log.		
Gravel	10	10
Clay and gravel	14	24
HANSON 22. Alt. 91.91 ft.		
Geologist's log of auger hole.		
Very fine sand, some small pebbles	5	5
Very fine sand, light brown, numerous small pebbles 1" or less	5	10
Sand; layer 1" pebbles at 12' followed by same sand--some pebbles	5	15
Fine sand, numerous small pebbles .5" or less; sand growing more coarse with depth	5	20
Fine to medium fine sand	5	25
Sand, medium to coarse, coarse well sorted	5	30
Medium sand, very well sorted	15	45
Medium sand, but finer than before, well sorted	10	55
Sand, fine to very fine	10	65
Very fine sand grading to a clayey sand	5	70
Clayey sand to sandy clay, very fine	5	75
Find dense blue clay on bit.		
HANSON 25. Alt. about 70 ft.		
Geologist's log of auger hole.		
Dark clayey soil	1	1
Clayey sand, light brown, fine	7	8
Boulders with sand	2	10
Sand, brown; well sorted but somewhat coarser	5	15
Medium sand, well sorted, some boulders toward bottom	3	18
Refusal		at 18
Very fine, dark blue clay on bit.		
HANSON 55. Alt. about 70 ft.		
Driller's log of auger hole.		
Sand, fine grained	4	4
Sand, medium to fine, clayey with pebbles	$3\frac{1}{2}$	$7\frac{1}{2}$
Sand, very fine, and silt with some clay	$7\frac{1}{2}$	15
Sand, very fine, well sorted	10	25
Sand, medium fine, scattered coarse grains	15	40
Sand, medium grained	3	43
HANSON 56. Alt. about 50 ft.		
Geologist's log of auger hole.		
Sand, medium, moderately sorted	4	4
Gravel, medium to coarse	2	6
Sand, medium to coarse, and gravel, medium to coarse	4	10
HANSON 56.--Continued		
Sand, fine to very coarse, poorly sorted	1	11
Sand, dark brown, fine to very coarse, poorly sorted	14	25
HANSON 57. Alt. about 70 ft.		
Geologist's log.		
Open-end rod sample, hit boulder at 3'. Sample contains sharp angular pebbles of fine to coarse gravel size, probably derived from the crushed boulder above. Rest of sample consists of sand and silt. Sample is a light tan in color. Sand ranges from fine to coarse and is very poorly sorted. The sand grains are mostly subangular, some rounded. The sample looks very much like till		5-6.6
Sand and gravel, stained reddish brown from Fe, gravel very fine to medium, poorly sorted, grains run from angular to subrounded. Mixed with gravel is sand, fine to very coarse, poorly sorted, rounded to subrounded, very loose sample, some silt mixed in		10-11.6
Upper 4"--Sand and gravel, light tan. Gravel is fine to coarse, rounded to subrounded. Sand is very fine to very coarse; predominantly medium to coarse and moderately sorted. Sample loose, all grain sizes are rounded to subrounded and grains appear to be clear. Some silt		
Lower 2"--Sand, very fine to very coarse, well sorted, predominantly very fine. All grains are rounded, silt mixed in		15-16.6
Upper 3"--Sand, brown, well sorted, coarse to fine, predominantly fine and rounded, grades gradually into next 10"		
Lower 10"--Sand and gravel, light brown, gravel about 10-15% of sample, very fine to coarse, rounded to subrounded; sand medium to coarse with some fine sand mixed in, well sorted, predominantly coarse and well rounded, grains clear. Sample loose		20-23
Sand and gravel, light brown, with some silt; gravel about 40% of sample and very fine to medium, rounded. Gravel appears to be made up of shaly material. Sand very fine to coarse, poorly sorted and well mixed with silt. All grains are predominantly rounded with some grains subrounded to subangular; grains appear to be clear. Sample well compacted. A good deal of the coarse to medium sand is made up of shaly substance which crumbles easily under the fingers		25 26.6
Sand and gravel, brown, gravel fine to coarse, rounded; sand very fine to coarse, poorly sorted, well rounded, mixed with some silt		30-36.6
Driller says he encountered boulder from 35'-40'		40-41.6
Drive		40-45
Sand and clay, gray and mottled brown, poorly sorted. Large pebbles and finer sediments generally well rounded. Clay globs surround many large grains and mix with some of the finer. Better sorted lumps of coarse sand also occur. Probably till. Mottled brown color due to oxidation, small amount of FE_2O_3 also present as a cement		45 46.5
Drive--change at 46.5		45-50
Top 4"--Dark blue-black, clay-rich till with center of core light gray.		
Remainder of sample--till, light gray-green, composed of coarse quartz grains with matrix of fine dry silt, probably finely crushed rock, sample dry		50-51.0
Pull out.		
HANSON 67. Alt. about 70 ft.		
Geologist's log of auger hole.		
Sandy soil	4	4
Sand, tan, fine, well sorted	14	18
Sand, medium, and silt	12	30
Sand, silt, and clay, tan, poorly sorted	2	32
Sand, medium to coarse, with silt and gray clay	8	40
Dense till	4	44
HANSON 68. Alt. about 75 ft.		
Geologist's log of auger hole.		
Silt, light gray	15	15
Clay, very dark gray, stiff	18	33
Bedrock		at 33
HANSON 72. Alt. about 60 ft.		
Geologist's log of auger hole.		
Fill	10	10
Sand and silt, carbonaceous	3	13
Clay, light gray, silty	20	33
Bedrock		at 33
KINGSTON 7. Alt. about 55 ft.		
Driller's log.		
Sand, medium; and fine gravel.	14	14
Sand, gray, medium	12	26
Sand, brown, medium	4	30
Sand, fine to medium; fine gravel; and clay	7	37
Sand, medium to coarse; sharp gravel; and clay	17	54
KINGSTON 43. Alt. about 55 ft.		
Driller's log.		
Sand, coarse	10	10
Clay, gray	5	15
Sand, fine	25	40
Sand, fine; and clay	20	60
Gravel	20	80
Hardpan	1	81
Rock		at 81
KINGSTON 93. Alt. about 80 ft.		
Geologist's log of auger hole.		
Sand, brown, fine	6	6
Sand, medium, well sorted	1	7
Coarse gravel and cobbles, 2.5"-.5" diameter	3	10
Refusal		at 10
KINGSTON 94. Alt. about 50 ft.		
Geologist's log of auger hole.		
Sand, medium, gravel on bottom	2.5	2.5
Sand, medium to coarse	7.5	10
Sand, brown, very coarse, well sorted	10	20
Same--cobbles at 24'	5	25
No sample coming up	6	31
Refusal		at 31
No clay on bit, some fresh rock fragments on bit, behavior of auger suggests bedrock--may be compact till, however.		
KINGSTON 95. Alt. about 40 ft.		
Geologist's log.		
Sand, light brown, very fine to medium, predominantly fine, very well sorted. Sand too fine to determine degree of roundness		5-6
$9-9\frac{1}{2}$'--Sand, light brown, fine to very coarse, predominantly medium, very well sorted, grains range from round to subangular and clear		
$9\frac{1}{2}$-10'--Sand, reddish brown,		

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
KINGSTON 95.--Continued		
strongly iron stained, fine to very coarse, predominantly medium but with slightly higher percentage of coarser material than above, grains rounded to subangular and clear		9-10
Sand and gravel; sand very fine to very coarse, predominantly coarse and moderately sorted; grains rounded to subrounded and clear. Gravel is very fine to fine and rounded, upper 2" are clear of Fe staining but the lower 5" are strongly Fe stained. The color of the upper 2" is light brown. Also some blebs of very fine sand may be seen lying in the sample. The blebs seem to be irregularly placed in the sample and range in diameter from ¼ to ½". There also appears to be a high percentage of a black mineral mixed in with the quartz grains. The black mineral grains are of medium size and well rounded		15-16.6
Sand, light brown, medium to very coarse, predominantly coarse and very well sorted, grains round to subrounded and clear. Mixed in with the above are blebs of fine sand also light brown		20-21.6
Sand, reddish brown, fine to very coarse, predominantly coarse and very well sorted, strongly Fe stained; grains rounded to subangular and clear		25-26.6
The water from the wash for this sample had a distinct orange-brown color. Sand, reddish brown, medium to very coarse, predominantly coarse, well sorted. In this sample as in all others back to 15' there are black grains of medium size and well rounded. May be hematite		30-31.6
Upper 2"--Same as above.		
Lower 6"--Sand and gravel, reddish brown; sand is very fine to very coarse, predominantly medium. Moderately sorted grains rounded to subangular and clear. Gravel is very fine to very coarse, well rounded. Heavily Fe stained. Upper 2" grades slowly into lower 6"		35-36.6
Upper 2"--Sand and gravel, dark reddish brown; sand is fine to very coarse, predominantly coarse, moderately sorted; grains rounded to subangular; grains stained with Fe. Gravel is very fine and rounded. Upper 2" grades slowly into the next 2" which is like above but sand lacks red color and is predominantly medium. This in turn grades into the next 2" which is also sand fine to medium but predominantly fine and lacks color. Below this are bands of predominantly coarse sand alternating with bands of medium sand, fine sand, and bands of silt. The bands of coarse sand average about ½" in thickness and are stained reddish brown. The bands of finer sand are less in thickness and do not show Fe staining		40-41.6
Change at 43'. Sand, gray, very fine to medium, predominantly fine, well sorted. Bottom 1" of sample very fine gray sand. Some silt mixed in. No iron staining present		45-46.6
Upper 6"--Fine sand, gray, mixed with silt, well sorted		
Lower 6"--Very fine sand, gray, mixed with silt, 50% sand and 50% silt		50-51.6
Silt and sand, gray, very fine, sand mixed with silt, no Fe staining. A very dense silt, sample wet		55-56.6
Silt and fine sand, gray, very compact and dense, sample wet		60-61.6
Sand, light gray, mixed with silt. Sand is very fine and extremely well sorted. Small blebs of a light cream colored clay may be seen in sample. In the last 2" of the sample are several slivers of rock fragments of fine to coarse gravel size. Fragments are black and very easily broken between the fingers. Looks like fragments of the Rhode Island formation		65-66.6
Upper 10"--Sand light gray, very fine, well sorted, no silt. Uniform in appearance in the sample tube		
Next 2"--Fine sand, gray as above but mixed in the fine sand is a black shaly material, easily broken between the fingers		
Lower 2"--Sand, silt and gravel. Looks like till, gray in color; mixed in thoroughly with gray, fine, sand and silt are angular fragments of coarse sand and black shaly angular fragments of gravel		70-71
MARSHFIELD 30. Alt. about 100 ft.		
Geologist's log of auger hole.		
Sand, tan, fine	2	2
Sand, gray-brown, coarse, scattered pebbles	3½	5½
Sand, gray, coarse to very coarse, scattered pebbles	4½	10
Sand, gray, medium, well sorted	10	20
Sand, gray, fine, well sorted.	5	25
Sand, gray, medium	4	29
Sand, coarse, well sorted	5	34
MARSHFIELD 31. Alt. about 90 ft.		
Geologist's log of auger hole.		
Sand, brown, medium, clay balls	5	5
Sand, brown, fine to very coarse, poor or no sorting, boulders	9	14
Sand, brown, fine, well sorted	3	17
Sand, brown, coarse, well rounded	2	19
Sand, brown, medium-coarse to medium, sorted	3	22
Pebbles, sand, brown, medium grading to fine	2	24
Sand, medium to coarse, boulder on bottom	1	25
Sand, brown, coarse, some fines	30	55
Sample	3	58
Refusal		at 58
Dense olive clay on bit.		
PEMBROKE 2. Alt. about 20 ft.		
Driller's log.		
Loam	1	1
Sand, brown; coarse gravel; and clay	9.6	10.6
Sand and clay	2.4	13
Sand, gray; gravel; and clay; hardpan	3.6	16.6
PEMBROKE 3. Alt. about 20 ft.		
Driller's log.		
Loam	1	1
Brown sand, gravel, and clay	4	5
Brown sand and gravel, trace of clay	7½	12½
Sand, gravel, and clay (hardpan)	4	16½
PEMBROKE 4. Alt. about 20 ft.		
Driller's log.		
Fill	3½	3½
Loam	1	4½
Fine sand and clay	2	6½
Gray sand, gravel and clay	10½	17
PEMBROKE 5. Alt. about 20 ft.		
Driller's log.		
Loam	1	1
Sand, gravel, and clay (tight)	23	24
Gray sand, gravel and clay (hardpan)	1½	25½
Refusal		at 25½
PEMBROKE 6. Alt. about 35 ft.		
Driller's log.		
Peat	1½	1½
Sand, gravel, trace of clay	26½	28
Gray sand, gravel, and clay (hardpan)	5	33
PEMBROKE 7. Alt. about 25 ft.		
Driller's log.		
Peat	18.5	18.5
Sand, gray; some gravel and clay	13.5	32
Sand, brown; and gravel, trace of clay	5.5	37.5
Sand, brown; and gravel; some clay	10.5	48
Sand, gray; gravel; and clay; hardpan	8	56
Refusal		at 56
PEMBROKE 8. Alt. about 35 ft.		
Driller's log.		
Peat	4½	4½
Clay	5½	10
Sand, gravel, and clay	4½	14½
Sand, gravel, trace of clay	6½	21
Sand, gravel, little clay	8	29
Hard packed gray sand, gravel, and clay	6	35
Refusal		at 35
PEMBROKE 9. Alt. about 35 ft.		
Driller's log.		
Loam and peat	1	1
Sand, gravel, and trace of clay	9	10
Brown sand and gravel	9	19
Red-brown sand and gravel	9	28
Light brown sand and gravel, trace of clay	3	31
Light brown sand, gravel, and clay	7	38
Red sand, gravel, and clay	2½	40½
Refusal		at 40½
PEMBROKE 10. Alt. about 30 ft.		
Driller's log.		
Loam	.7	.7
Sand, gray; gravel; and clay	7.1	7.8
Sand, brown; and gravel; trace of clay	29.4	37.2
Sand, hard packed; and gravel; trace of clay	3.8	41
Sand, gravel, and clay	7.8	48.8
Sand, very red, hard packed; gravel; and clay	2.8	51.6
Refusal		at 51.6
PEMBROKE 11. Alt. about 30 ft.		
Driller's log.		
Loam	.7	.7
Sand, hard packed; gravel; and clay	4	4.7
Clay, brown changing to gray	10.3	15
Sand, gravel, and clay	10.3	25.3
Clay, gray, soft	5.7	31
Sand, gray; gravel; and clay	13.8	44.8
Sand, gravel, and clay	1.9	46.7
Refusal		at 46.7
PEMBROKE 12. Alt. about 50 ft.		
Driller's log.		
Loam	½	½
Brown sand and gravel	19	19½
White clay and sand	2½	22
Broken stones and clay	9½	31½
Refusal		at 31½

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
PEMBROKE 13. Alt. about 50 ft.		
Driller's log.		
Peat	3	3
Gray sand, gravel and clay	7	10
Brown sand and gravel	10½	20½
Light brown sand and gravel, trace of clay	4½	25
Sand, gravel and clay (hard packed)	2½	27½
Broken stone and clay	7½	35
Refusal		at 35
PEMBROKE 14. Alt. about 50 ft.		
Driller's log.		
Peat	3	3
Sand, hard packed; gravel; and clay	6.3	9.3
Sand, brown; and gravel; trace of clay, and some boulders	10.4	19.7
Sand, light brown; and gravel; some boulders	4	23.7
Sand, gray, hard packed; gravel; and clay	2.3	26
Sand, blue-gray, hard packed; gravel; and clay	10.5	36.5
PEMBROKE 15. Alt. about 50 ft.		
Driller's log.		
Peat	2.5	2.5
Sand, hard packed; and gravel	8.2	10.7
Sand and gravel; little clay	4.3	15
Sand, medium; and gravel; trace of clay	5	20
Sand and gravel; quite a bit of fine sand	4	24
Sand, red-brown; and coarse gravel	4	28
Sand, light brown; and gravel; more fine sand	6.5	34.5
Sand, hard packed; and clay	3.5	38
Sand, very hard; gravel; clay; and broken stone	12.5	50.5
Refusal		at 50.5
PEMBROKE 16. Alt. about 35 ft.		
Driller's log.		
Loam	1	1
Gray sand and gravel, trace of clay	3½	4½
Sand, gravel, and clay	15	19½
Fine sand, clay, and gravel	6	25½
PEMBROKE 17. Alt. about 60 ft.		
Driller's log.		
Loam	.5	.5
Sand and gravel; "lot of fines"	16.5	17
Sand, gravel, and clay; some rocks	12.1	29.1
Sand and gravel; trace of clay	5.4	34.5
Sand, medium; and gravel; some rock and boulders	19.6	54.1
Sand, medium; and gravel; lot of fine rock and boulders	9.4	63.5
Sand, gray; gravel; and clay	10.9	74.4
Refusal		at 74.4
PEMBROKE 18. Alt. about 60 ft.		
Driller's log.		
Peat	1	1
Light gray sand and gravel	3	4
Gray clay changing to brown	5	9
Sand and gravel, trace of clay	3½	12½
Light brown sand and gravel	8½	21
Sand and gravel, trace of clay	3	24
Red sand and gravel	3	27
Light brown sand and gravel	5	32
Sand, gravel, and clay	6	38
Gray fine sand and clay	5	43
Gray sand, gravel and clay	8	51
Hard packed sand and gravel and clay (hardpan)	1½	52½
Refusal		at 52½
PEMBROKE 19. Alt. about 60 ft.		
Driller's log.		
Sand	4	4
Sand and clay	5	9
Sand and gravel	14	23
Gray sand and gravel, some clay changing to brown	15	38
Gray sand, gravel, and clay	9½	47½
PEMBROKE 20. Alt. about 10 ft.		
Driller's log.		
Loam	1.7	1.7
Sand and gravel	2.3	4
Sand, gray; gravel; and clay	18	22
PEMBROKE 20.--Continued		
Sand, very dark gray; gravel; and clay	27.5	49.5
Rock		at 49.5
PEMBROKE 21. Alt. about 10 ft.		
Driller's log.		
Hard packed sand, gravel and clay	10	10
Sand and gravel	8	18
Gray sand, gravel, and clay	11	29
Refusal		at 29
PEMBROKE 22. Alt. about 10 ft.		
Driller's log.		
Peat	.6	.6
Sand, hard packed; and gravel.	3.9	4.5
Clay	2	6.5
Sand and gravel; trace of clay	7.5	14
Sand, fine; and clay	10.5	24.5
Clay; a little fine sand	13	37.5
Refusal		at 37.5
PEMBROKE 23. Alt. about 25 ft.		
Driller's log.		
Hard packed sand, gravel, and clay	5	5
Sand, gravel, and rock	9½	14½
PEMBROKE 32. Alt. about 10 ft.		
Driller's log.		
Peat	2	2
Gray sand and gravel	10½	12½
Sand, gravel, and clay	10½	23
Hardpan	2½	25½
PEMBROKE 33. Alt. about 10 ft.		
Driller's log.		
Peat	2	2
Sand, gray; and gravel	7.5	9.5
Sand, gravel, and clay	19.0	28.5
Hardpan	3.3	31.8
PEMBROKE 35. Alt. about 10 ft.		
Driller's log.		
Peat	2	2
Gray sand and gravel	7	9
Sand, gravel, and clay	4	13
Gray sand, gravel, and clay (hardpan)	2	15
Refusal		at 15½
PEMBROKE 36. Alt. about 10 ft.		
Driller's log.		
Loam	1	1
Sand and gravel	2	3
Sand, gravel, and clay (hardpan)	4½	7½
Refusal		at 7½
PEMBROKE 38. Alt. about 60 ft.		
Driller's log.		
Loam	1	1
Medium to coarse sand	15	16
Soft gray clay	2	18
Coarse sand and gravel	13	31
Fine to medium sand, little clay and scattered sharp gravel	11	42
Hard packed sand and clay with sharp black rock	2½	44½
Refusal		at 44½
PEMBROKE 222. Alt. about 80 ft.		
Geologist's log of auger hole.		
Sand, light color, fair sorting	5	5
Sand, medium, well sorted	5	10
Sand, medium fine, well sorted	5	15
Sand, fine	20	35
Sand, gray, very fine	5	40
Sand, gray, very fine, some very fine tan sand toward bottom	5	45
Sand, grayish, very fine	5	50
Sand, gray, very fine, mixed with clay, becomes sandy clay toward bottom (last foot)	5	55
Sand, clay mixed gray, very fine	5	60
Sand, clayey, gray, very fine.	5	65
Clay, sand mixture grades to gray sandy clay at bottom	5	70
Clay, gray	5	75
Clay, gray, excellent texture.	12	87
Too heavy to continue, quit at 87'.		
PEMBROKE 223. Alt. about 115 ft.		
Geologist's log of auger hole.		
Fill	1	1
Sand, fine, brown	4	5
Sand, light brown, fine	10	15
Sand, light brown, hard stony layer at 16', few stones brought up	5	20
Sand, light brown, fine	10	30
Sand, light brown, medium to fine	5	35
Sand, medium to coarse, mostly medium	5	40
Sand, medium; some coarse grains and pebbles	5	45
Sand, brown, medium to coarse.	5	50
Sand, medium, few grains of coarse	5	55
Sand, medium to fine	5	60
Sand, coarse	15	75
Sand, very coarse, well sorted	5	80
Sand, coarse to very coarse	7	87
PEMBROKE 224. Alt. about 60 ft.		
Geologist's log of auger hole.		
Sand, light brown, very fine, some pebbles	5	5
Sand, very fine, layers of 1" to 2" pebbles	2	7
Sand, medium, well sorted	3	10
Sand, medium, well sorted, few pebbles	15	25
Sand, medium to coarse	10	35
Sand, coarse	10	45
Sand, very coarse to fine gravel	5	50
Very fine gravel	5	55
Gravel, very fine grading to very coarse sand	5	60
Hard drilling, believe going into clay	3	63
Refusal, bedrock?	1	64
Blue clay on bit, contains fragments of fresh crushed bedrock.		
PEMBROKE 225. Alt. about 110 ft.		
Geologist's log of auger hole.		
Gravel; coarse; mixed with fine to coarse sand--pebbles 1" to .5" diameter, suggests rough sorting	5	5
Gravel 1 foot becoming finer, becomes coarse sand, sorting fair on top, improves downward	5	10
Sand, brown, coarse, mixed with medium	5	15
Sand, coarse to medium, brown, very fine gravel	5	20
Same with medium and coarse gravel	5	25
Sand, medium, brown, very fine to fine gravel	8	33
Hard bed, finer	6	39
Refusal on bedrock?		at 39
PEMBROKE 226. Alt. about 120 ft.		
Geologist's log of auger hole.		
Sand, brown, medium	4	4
Cobbles, 1" diameter	1	5
Sand, medium, some gravel	5	10
Sand, medium, well sorted, few small boulders	7	17
Sand, very poorly sorted; range from coarse to clay, hard drilling	5	22
Harder; very wet mud, loosely cohesive due to clay content		
Mud--coarse sizes brought up in mud	7	29
Refusal on bedrock?		at 29
Gray clay on bit, probably hit at 22'.		
PEMBROKE 227. Alt. about 115 ft.		
Geologist's log of auger hole.		
Sand, light brown, medium to fine	4	4
Pebbles 1.5"-.5" diameter	1	5
Sand, grade from medium to coarse at 8-10'	5	10
Sand, brown, coarse to medium, some gravel--go through pebble layers 2-3" thick	5	15
Pebble layers and coarse sand.	4	19

	Thickness	Depth
PEMBROKE 228. Alt. about 110 ft.		
Geologist's log of auger hole.		
Sand, fine, brown to medium tan, poorly sorted	4	4
Sand, coarse to medium, sorting better	1	5
Pebbles	.5	5.5
Sand grading from medium to coarse downward, some very coarse grains	1.5	7
Very hard--rig bounces, no footage, large boulders or bedrock?		
Refusal		7
PEMBROKE 229. Alt. about 90 ft.		
Geologist's log of auger hole.		
Sand, medium light brown, pebble layer 4.5'-5'	5	5
Sand, medium, and gravel	1	6
Sand, deep red, coarse with some gravel layers, well sorted	4	10
Sand, deep red, refusal on bedrock?	1	11
Only bedrock outcrop in area is 1½ miles due south.		
PEMBROKE 240. Alt. about 75 ft.		
Driller's log.		
Fine sand, well packed	29	29
Fine sand, little clay	13	42
Medium brown sand with gravel	13	55
Fine to medium light brown sand	23	78
Medium brown sand, scattered gravel	12	90
Medium to very coarse sand and gravel	13	103
Bedrock		at 103
PEMBROKE 241. Alt. about 65 ft.		
Geologist's log.		
Sand, light brown, medium to coarse, well sorted	33	33
Sand, dark brown, coarse, well sorted	9	42
Sand, very coarse, well sorted.	9	51
Sand, fine, with some gravel, trace of clay	15	66
Sand, sharp gravel, and clay	26	92
Refusal		at 92
PEMBROKE 265. Alt. about 120 ft.		
Geologist's log of auger hole.		
Sand, light brown, poorly sorted, from very fine to very coarse	5	5
Sand, poorly sorted, greater percentage fine	5	10
Sand and poorly sorted gravel with rounded pebbles, sandy clay on bottom	5	15
Soupy mixture of clay, silt, sand, boulders, auger jumping all way	8	23
Refusal		at 23
PEMBROKE 267. Alt. about 30 ft.		
Geologist's log of auger hole.		
Sand, brown, fine, little clayey	5	5
Sand, light, brown, fine, well sorted	5	10
Sand, brown, very coarse, well sorted	4	14
Sand, tan, poorly sorted, fine to coarse	6	20
Sand, tan, fine, scattered larger grains	10	30
Sand, tan, slightly more coarse	10	40
Sand, brown, coarse	7	47
Sand, olive, coarse, hardened at 48'--may have gone to clay	3	50
Sand, becoming red in hue	5	55
Quit drilling at 55'.		
Blue and red clay on bit.		
PEMBROKE 268. Alt. about 55 ft.		
Geologist's log of auger hole.		
Soil zone--dark brown loam and very fine sand, with pebbles and clay	4	4
Sand, gray, very fine, fine, and clay	1	5
Dark black till	4	9
Refusal on bedrock or boulder		
PEMBROKE 271. Alt. about 65 ft.		
Geologist's log of auger hole.		
Sandy soil	3	3
Sand, brown, medium to coarse, well sorted	2	5
Sand, medium to very coarse, scattered pebbles	15	20
Sand, medium to coarse, well sorted	5	25
Sand, medium to fine, well sorted	18	43
PEMBROKE 275. Alt. about 50 ft.		
Geologist's log of auger hole.		
Loam	3	3
Sand, dark brown, clayey	4½	7½
Clay, gray	16½	24
Clay, sandy, hard, probably till	5	29
PEMBROKE 277. Alt. about 70 ft.		
Geologist's log.		
Top 7"--Sand, light brown, very fine to coarse, predominantly coarse with fine grained lenses. Coarse grains are rounded to subangular, clear. Fine grains are subangular to subrounded		
Bottom 3"--Sand, light brown, medium to coarse grains, predominantly coarse. Coarse grains are rounded to subangular, occasional ¼" subangular pebbles present		5-6.6
Sand, tan, medium to very coarse, predominantly coarse, subrounded to rounded, clear, well sorted		10-11.6
Top 6"--Sand, brown, medium to coarse, predominantly coarse, scattered very coarse grains, rounded and clear. Fine sand present also rounded and clear. Mineral predominantly quartz, large pebbles up to 1" in diameter present		
Bottom 3"--Sand, fine, gray, angular to subangular, clear, slight Fe staining. At 13' started to drive hard		15-16.6
No recovery, piece of gravel stuck in spoon		20-21.6
Top 9"--Sand, fine to coarse, predominantly coarse, coarse is subrounded to rounded, reddish brown in color, grains clear. 2-3% reddish brown silt present. Micaceous		
Bottom 9", top 6"--Sand, brown, coarse, well sorted, rounded, clear, quartz and feldspar present. Bottom 2" is ½" clay well sorted, below which is very coarse sand, angular. Interbedded with the sand are lenses of clay and fragments of Rhode Island formation. Iron staining present		21.6-23
No recovery		25-26.6
Sand, very coarse to fine, predominantly very coarse, medium to fine gravel present. Interbedded lenses of silt present. Coarse grains are rounded to subangular. Gravel subrounded to angular and clear		26.6-28.0
No recovery--pebbles in sample spoon		30-31.6
No recovery--pebbles in sample spoon		31.6-33.0
Top 1½"--Sand, same as last sample, iron stained		
Next 5"--Clay till, very stiff, olive drab color, some iron staining		
Bottom 6"--Sand, brown, fine to very coarse, some fine gravel, predominantly coarse, coarse is rounded to subrounded, clear, some silt present. Iron staining. Abundant large pebbles up to ½" in diameter present		35-36.6
PEMBROKE 277.--Continued		
Clay, gray, stiff. Trace of sand, fine to coarse, clay started at 37' according to driller		40-41.6
Sand, gray-brown, fine to coarse, predominantly medium, grains subrounded to rounded, clear, some iron stained lenses. Probably change at 44'--driller		45-46.5
Sand, gray-brown, fine to coarse, predominantly medium; coarse grain rounded to subangular, clear, no iron staining. Occasional fine gravel particle. Some silt present		50-51.5
Sand, light brown, fine to very coarse, predominantly coarse, some silt and ½" pebbles present, occasional iron stain lenses of sand. Coarse grains are subrounded to rounded, clear, some iron stained		55-56.5
Sand, light brown, fine to very coarse, predominantly coarse, well sorted, some silt and some fine gravel. No ½" pebbles as in last sample, coarse grains clear, well rounded to subrounded. Interbedded with above is stiff gray clay, mixed with some fine to medium sand		60-61.6
Top 3"--Sand, brown, fine to medium, predominantly medium, well sorted. Some silt, grains well rounded to subrounded, clear		
Middle 9"--Sand and gravel. Sand is brown with reddish staining, fine to very coarse, predominantly medium, grains angular to rounded and clear. Gravel is from fine to coarse, subrounded to rounded. Some angular fragments present, may be due to coring		
Bottom 2"--Sand, brown, very fine, to silt, olive gray. Some coarse fragments of rock present		65-66.6
Top 7"--Sand, brown, with some gravel; sand fine to very coarse, mainly coarse, subangular to rounded, clear; some silt. Gravel up to 1/3" in diameter. Bottom 1" is fine sand grading to clay below		
Bottom 8"--Gray silty clay, above 1" of very fine sand		70-71.6
Sand, gray, fine to very coarse, predominantly medium to coarse, well sorted, rounded to subrounded, clear.		75-76.6
No recovery		80-81.6
Sand and gravel, gray. Sand is medium to very coarse, predominantly very coarse, rounded to subangular, clear, well sorted. Gravel is fine to very coarse up to ½" in diameter, subangular to rounded. 90% sand, 10% gravel		80-81.6
Same as last sample. Last 1" appears to be till, i.e. sharp, angular fragments mixed with clay. No sample		85-86.6
Sand and gravel. Sand is coarse to very coarse, gray, very angular and clear, either till or crushed boulder		90
Drilled boulder 1'3". Recovered only 6". Washed up some fine sand, rounded and clear, probably lense of sand. Estimated sand lense 3" thick		90-91.3
Bobbed up a fine gray silt, probably till. Material was dry. Started at 91.6		94.8

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
PEMBROKE 277.--Continued		
Casing down to 95'. Clay, till........................		95-95.4
Till, very fine to very coarse sand, also silt. Minerals are quartz, feldspar, limonite and other accessory minerals. Grains very angular and splintery. Water washed up was brown with iron. Angular gravel also present.................		100-105
Till--similar to washed sample, stiff except for large angular pieces present. Gravel fragments are quartz.		105-106.4
Washed sample--till...........		105-110
Weathered rock probably Rhode Island formation............		110-115
No recovery....................		115-120
PEMBROKE 278. Alt. about 80 ft. Geologist's log.		
Top 2"--Sand: grayish brown, coarse, well sorted, scattered very coarse grains, loose cementation, subangular rounding, asymmetric forming rhombs and elongated fragments, clear, quartz, feldspar, slight Fe stain noted on individual grains...		
Lower 5"--Sand, tan, medium, well sorted, no structure visible, loose angular clear appearance but possibly frosted. Main mineral quartz, no visible stains....		5-6.5
Sand: brownish gray, medium, well sorted, structureless, loose, subangular, clear appearance. Irregular Fe staining throughout sample with vertical trend. Major quartz; minor pink feldspar...		10-11.5
Top 8"--Sand: brown, medium with coarse subordinate fraction, well sorted, structureless, loose, subangular, clear grains of quartz, Fe stain (bottom ½" heavy Fe concentration, nearly cemented.)		
Lower 3"--Sand: light gray brown, very fine well sorted, subordinate fine with scattered medium grains, compact, rounded to subangular, clear appearance no stain, no structure..........		15-16.5
Sand gray (wet), gray-white (dry) very fine, well sorted, large subordinate silt fraction, structureless, top inch has sand grains (probably washed down)..................		20-21.5
Same, but more silty at the bottom of sample.............		25-26.5
Top 6"--Silt: gray, well sorted.		
Middle 2"--Very fine sand and silt, medium gray, minute parting of dense clay no thickness....................		
Lower 6"--Silt: gray, well sorted, small fraction of very fine sand..............		30-31.5
Top 4½"--Sand: brown, 80% medium 20% coarse, well sorted, slight Fe stain, clear, no structure, well rounded......		
Lower 12½"--Sand: very fine, silty, gray, well sorted, structureless, compact.......		35-36.5
Top 8"--Sand, gray brown, very fine, (minor fine) scattered coarse grains, well sorted, no structure, clear..........		
Lower 3"--Angle of contact 50° to the horizontal, sand: fine with minor constituent of medium; brown, well sorted, no structure, loose, subangular, tabular, clear, quartz, muscovite, feldspar, heavy staining on quartz grains....		40-41.5
Top 2"--Sand: contains pebbles, brownish gray, medium, well sorted, no structure, loose, well rounded, elliptical, clear, quartz, feldspar, occasional Fe staining quartz grain...............		
Middle 8"--Sand: brownish gray, fine, well sorted, no structure..................		
Bottom 4"--Clayey silt, gray, half way down the 4" sample there is 1/8" bed of medium sand........................		45-46.5
Silty clay: Silt diminishing with depth, dark gray, very dark in lower 3", in upper 2" very angular pebbles (these may be due to contamination from above.)..		50-51.5
Silty clay: Silt diminishing with depth, dark gray, 10" from top sand bed appears, 1" thick, fine, gray........		55-56.5
Top 4"--Clay gray, contains sand and pebbles up to ½" diameter, poorly sorted.....		
Bottom 2"--Clay, some silt, minor amounts of fine sand, gray, no pebbles...........		60-61.5
Top 3½"--Sand: Fine, gray, well sorted, clear, well rounded, quartz, muscovite..		
Middle 4½"--Contact dips 60° with horizontal. Silt: gray, with very fine sand.........		
Lower 4"--Sand: Gray-green, fine, well rounded, clear, well sorted, minor very fine sand, no staining...........		65-66.1
Top 10"--Sand: Gray-green, fine, well sorted, well rounded, minor very fine sand, becoming finer with increasing depth...........		
Middle 7"--Sand: Gray-green, very fine, well sorted, gradational contact with overlying sand and underlying silt............		
Bottom 1"--Silt: Gray, with clay; very bottom: ¼" silt, ¼" clay, varved?.............		70-71.5
Top 5.5"--Sand: Gray, fine grading toward medium at bottom, well sorted, well rounded, minor fraction of very fine sand, isolated grains stained with iron. Quartz--50%, loose...........		
Middle 4"--Sand: Gray, fine, silty, faint stratification of light and dark layers, higher % of silt in light layers......................		
Lower 3½"--Sand: Fine, minor medium, well sorted, well rounded, major quartz 60%, highly spherical, loose, clear......................		75-76.5
Sand: Coarse, gray-brown, well sorted, minor medium sand, well rounded, quartz grains roughly spherical, minor constituents tabular and elongate, loose, occasional iron stained grains.........		80-81
NOTE: A spoon was unsuccessful in obtaining a sample at this depth. The above sample was taken by bobbing an open pipe.		
Sand: Gray-brown, coarse, well sorted, minor medium with trace of fine sand, scattered Fe stained quartz grains, remainder is fragments of dark mineral and pieces of Rhode Island formation......		85-87
Top 15"--Sand: Coarse, moderate yellow brown, well sorted, minor very coarse sand, rounded to subangular, loose, unstained quartz, minor feldspar fragments of Rhode Island formation......		
Lower 6"--Sand: Very fine, silty, gray, well sorted, abrupt contact with coarse sand, above contact seems horizontal, pebbles along contact are in the very fine sand..................		90-91.5
Sand: Brown gray, coarse, well sorted, loose, rounded, irregular, clear, major quartz, scattered Rhode Island formation fragments, feldspars..................		95-96.5
Sand: Green-brown, coarse 65%, medium 35%, no structure, loose, rounded, frosted, major quartz, feldspar, Rhode Island formation fragments, hornblende.................		100-101.5
Sand: Green-brown, medium, well sorted, no structure, loose, rounded, quartz approaching ovoid shape, frosted, quartz dominant mineral--50%...............		105-106.5
Top 8"--Sand: Green-gray, fine, contains pebbles, well sorted, grades into the below described material, loose, rounded, quartz (major), contains pebbles...		110-
Lower 10"--Silt: Gray-green...		111.5
Silty clay, gray-green, no structure..................		120-121.5
Sand: Gray, fine, well sorted, no structure, loose, subangular, some of quartz grains clear, others frosted.		125-126
Sand: Gray, very fine, well sorted, loose, well rounded, quartz, some silt and some clay.......................		130-131.5
Top 12½"--Sand; gray-green, very fine, well sorted, grading into silt in top inch, dense.................		
Lower 5½"--Sand: Gray-green, fine and very fine mixed, moderate sorting, good contact with above very fine sand.......................		135-136.5
Top 6½"--Sand: Gray, grades from very fine down to medium which contains some coarse grains (at bottom of this 6½" there is a contact with ¼" of silt which grades down through very fine sand to fine sand at the bottom of the 18" sample), well sorted, moderately compact, well rounded, some quartz grains ovoid in shape, frosted quartz, fragments of Rhode Island formation............		
Lower 12"--Sand: Gray ¼" band of silt at top then very fine sand which grades gradually to fine sand at bottom, well sorted, moderately compact.........		140-141.5
Top 7"--Sand: Gray, fine, well sorted, rounded, moderately compact....................		
Bottom 11"--Sand: Gray, very fine, well sorted, compact..		150-151.5
Top 1½"--Sand, green-gray, very fine (grades gradually into the below described fine sand), well sorted, loose......................		
Middle 5"--Sand, green-gray, fine, well sorted, well rounded, loose, clear, major mineral quartz--50%........		
Bottom 11½"--Sand, green-gray, very fine with minor amount of fine grain, well sorted, good contact with fine sand above, loose, grains approach ovoid shape, frosted, major quartz......................		155-156.5
Sand: Gray, very fine, well sorted, no structure, loose, rounded, quartz grains approaching ovoid shape, major mineral: Quartz, silt appears in lower 2"........		160-161.5

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
PEMBROKE 278.--Continued		
Sand, gray, medium, well sorted, no structure, loose, well rounded, ovoid, frosted, major mineral quartz, some fragments of Rhode Island formation		165-166.5
Top 15½"--Sand: Brownish gray, fine, well sorted, good contact with silt described below, loose, well rounded, ovoid, frosted quartz--50%		
Middle 1"--Silt: Green-gray		
Bottom 1½"--Sand: Green-gray, fine, contains very fine and silt, poorly sorted, subangular, frosted, good contact with silt described above		170-171.5
Top 10" of 18" sample: Sand: gray, fine, well sorted, no structure, loose, rounded, ovoid, quartz, minor very fine grains.		
Lower 8"--Sand: Gray, major fine, minor medium, also minor very fine, poorly sorted, no structure, moderately compact, rounded, frosted		175-176.5
Washed up some very coarse sand.		175-180
Top 8"--Sand, brown gray, medium well sorted, grades into below described material, loose, rounded, grains approach ovoid shape, frosted, major quartz		
Lower 10"--Sand, gray, fine and very fine, moderately sorted, loose--subangular		180-181.5
A. Top 2½"--Sand: Major coarse, minor brown-gray medium, moderate sorting, loose, rounded, some frosted quartz, other clear		
B. Next 1"--Sand: Gray, major very fine, moderate sorting, good contact with above sand. Contact with below sand contains pebbles up to 3/8" diameter, loose, subangular--rounded, some grains frosted, others clear		
C. Next ½"--Same as described in the top 2½" (A)		
D. Next 5"--Sand: Gray, fine--very fine well sorted, good contact with above described material (C) moderately compact, rounded, both clear and frosted grains appear		
E. Bottom 9"--Sand: Same as "A" good contact with above described material (D)		185-186.5
Sand: Gray, medium--fine well sorted, loose, well rounded, ovoid frosted, major quartz		190-191.5
Sand: Gray, unsorted sample ranging in grain size from very coarse to very fine; contains some small pebbles, loose, well rounded, ovoid, clear; structureless (probably washed till)		195-196.5
Till: gray		200-201
Till: Large fragments of Rhode Island formation, 6" from bottom of sample a 1/8" bed of ferruginous sediment occurred (probably hematite).		205-206.1
Refusal		210
Core drilled and brought up a 2½" core of granodiorite boulder		210-212.75
Till: Gray, clayey matrix, contains angular gray slatey fragments of bedrock		212-213.5
Core drilled; no recovery		215.7-216.7
Drilled with diamond bit. Rhode Island formation		216.5-220
PEMBROKE 279. Alt. about 45 ft.		
Geologist's log.		
Washed up fragments of clay		0-5
Sand, brown, very fine to fine, predominantly very fine and very well sorted. Loose sample, dry, predominantly quartz with occasional flecks of mica		5-5.5
Upper 4"--Sand mixed with silt, brown. Sand is very fine, well sorted. Alternating with the sand and silt are bands of pure silt from 1/16" to 1/4" in thickness. Several horizontal bands of fine sand and silt stained with iron may be noticed, sample compact		
Next 2"--Sand, brown, fine to medium, predominantly medium and well sorted, sample loose		
Transition between upper 4" and next 2" very sharp.		
Lower 4"--Same as top 4"		10-11.5
Sand and gravel. Sand is fine to very coarse, brown; gravel is very fine. Material predominantly sand, which is coarse and well sorted. Grains rounded to subrounded		15-16.5
Sand, gravel and silt completely mixed. Sand is fine to very coarse; gravel is fine to coarse. All mixed together, poorly sorted, color brown, grains appear to be rounded to subangular and frosted		20-21.6
Upper 4"--Sand and gravel and silt. Sand very fine to coarse. Gravel very fine to medium, stained dark reddish brown from iron. Smaller grains appear rounded while coarser grains appear to be angular. Sample loose and wet. An intimate mixture of silt, sand, and gravel		
Lower 4"--Sand, gray, fine to coarse, predominantly medium and well sorted. Color gray, occasional fine gravel fragments present, some silt. Gradual transition between upper 4" and lower 4". Sand grains appear rounded		25-26.5
Upper 4"--Sand and silt, stained reddish brown from Fe; sand is very fine to very coarse, about 25-35% of sample very coarse. Grains are rounded to subangular. Sample loose and wet; grades gently into next 2". Some fine gravel present		
Next 2"--Sand, gray, fine to coarse, well sorted, predominantly medium, occasional fine gravel sized particles present.		
Next 5"--Sand, silt and gravel mixed together, gray. Sand is fine to very coarse; gravel, very fine to fine. Finer grains appear to be rounded and the coarser grains more angular. A gradual transition between each of the three samples		30-31.5
Sand, some fine to medium gravel, brown. Sand very fine to very coarse, predominantly coarse, well sorted, grains rounded to subrounded; some silt		35-36.5
Sand, gray, very fine to very coarse; poorly sorted; grains are rounded to subrounded and clear		40-41.6
Sand and gravel and some silt, brown. Sand, fine to very coarse. Sand completely mixed with the gravel. About 25% of sample is gravel which is very fine to fine; grains are rounded to angular.. Some silt present. May be till because of the heterogenous mixture		45-46.5
Looks like till; gray, mixture of silt, sand all sizes, and gravel; very fine to medium, all mixed together; smaller sand sizes tend to be rounded to subrounded and the larger coarser fragments tend to be more angular although the larger gravels appear to be rounded		50-51.5
Upper 4"--Like above.		
Lower 4"--Sand, brown, very fine to medium, well sorted, predominantly fine. A distinct gradation between upper and lower 4"		55-56.5
Upper 8"--Sand, light brown, very fine to coarse, predominantly medium and well sorted, grades to finer below		60-61.5
Hit boulder--no sample		65-67
Decayed black shale sample; probably Rhode Island formation		70-71.5
PLYMPTON 13. Alt. about 80 ft.		
Geologist's log of auger hole.		
Sand, light brown, poorly sorted, coarse to medium, clay balls near bottom	5	5
Sand and gravel, poorly sorted; rocks at 7', auger jumps; refusal in till	2	7
ROCKLAND 1. Alt. about 80 ft.		
Driller's log.		
Loam	1½	1½
Sand, gravel and boulders	16½	18
Hardpan and boulders	19½	37½
Refusal		at 37½
ROCKLAND 2. Alt. about 80 ft.		
Driller's log.		
Loam and sand	2	2
Sand and gravel	12	14
Hardpan and boulders	12.5	26.5
Sand, medium and gray sand	2.5	29
Sand, sharp gravel; and clay	16	45
ROCKLAND 3. Alt. about 75 ft.		
Driller's log.		
Loam	2	2
Sand, gravel, and boulders	13½	15½
Refusal		at 15½
ROCKLAND 5. Alt. about 80 ft.		
Driller's log.		
Sand, medium to coarse; scattered gravel	45	45
Sand, fine; and soft clay	4	49
Sand, brown, coarse	3	52
Sand, fine; fine gravel; and clay	16	68
ROCKLAND 6. Alt. about 90 ft.		
Driller's log.		
Sand and scattered gravel	28	28
Coarse gray sand and some clay	8	36
Fine gray sand and clay	5	41
Medium gray sand, sharp gravel and clay	5	46
Refusal		at 46
ROCKLAND 7. Alt. about 85 ft.		
Driller's log.		
Sand, gravel, and boulders	19	19
Sand, gray, medium; fine gravel; and some clay	14	33
Sand, gray, coarse; and sharp gravel; little clay	9.5	42.5
Clay, hardpan; and sharp rock.	6.5	49
Refusal		at 49
ROCKLAND 8. Alt. about 85 ft.		
Driller's log.		
Sand, gravel and boulders	19	19
Medium gray sand, fine gravel and clay	14	33
Coarse gray sand, sharp gravel and little clay	7	40

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
ROCKLAND 9. Alt. about 85 ft.		
Driller's log.		
Sand, gravel, and boulders	6	6
Sand and gravel	15	21
Coarse gray sand, scattered gravel	19	40
Clay, hardpan	11	51
ROCKLAND 10. Alt. about 85 ft.		
Driller's log.		
Sand, gravel, and boulders	6	6
Sand and gravel	15	21
Coarse gray sand and scattered gravel	17	38
ROCKLAND 11. Alt. about 95 ft.		
Driller's log.		
Coarse sand, gravel and boulders	9½	9½
Soft clay and sharp gravel	8½	18
Hard clay and boulders	3	21
Refusal		at 21
ROCKLAND 12. Alt. about 95 ft.		
Driller's log.		
Sand, coarse; gravel; and boulders	9.7	9.7
Clay, soft; and sharp gravel	8.3	18
Clay, hard; and boulders	8	26
Hardpan; and rotten shale	13.8	39.8
Refusal		at 39.8
ROCKLAND 13. Alt. about 100 ft.		
Driller's log.		
Loam	1½	1½
Sand and gravel	11½	13
Fine gray sand, sharp gravel and clay	25	38
Clay hardpan and sharp gravel	8	46
Refusal		at 46
ROCKLAND 14. Alt. about 100 ft.		
Driller's log.		
Loam	1	1
Hard packed sand, gravel and boulders	23	24
Medium to coarse gray sand, sharp gravel, some clay	19	43
Hard gray clay and sharp gravel	6½	49½
Refusal		at 49½
ROCKLAND 15. Alt. about 90 ft.		
Driller's log.		
Sandy clay	8	8
Sand, gravel, and boulders	7½	15½
Sand and gravel; little clay	13½	29
Hardpan and boulders	2	31
Refusal		at 31
ROCKLAND 16. Alt. about 90 ft.		
Driller's log.		
Sandy clay	8	8
Sand, gravel, and boulders	16	24
Refusal		at 24
ROCKLAND 17. Alt. about 90 ft.		
Driller's log.		
Sandy clay	8	8
Sand, gravel, and boulders	7½	15½
Sand, gravel, and little clay	13½	29
Hardpan and boulders	9½	38½
Refusal		at 38½
ROCKLAND 42. Alt. about 130 ft.		
Driller's log.		
Loam	1	1
Sand; clay; sharp gravel; and boulders	12	13
Clay, hardpan, and boulders	4.7	17.7
Refusal		at 17.7
ROCKLAND 46. Alt about 110 ft.		
Driller's log.		
Sand and boulders	4	4
Sand, gravel, and boulders	12	16
Refusal		at 16
ROCKLAND 48. Alt. about 100 ft.		
Driller's log.		
Loam, sand, and boulders	2	2
Sand, clay, and boulders	9	11
Sand and sharp gravel	7	18
Hard clay, sand, and rock	9	27
Refusal		at 27
ROCKLAND 49. Alt. about 120 ft.		
Driller's log.		
Clay, sandy; and boulders	6	6
Clay, gray, hard; and boulders	8	14
Sand, coarse	4.5	18.5
Clay, yellow, hard; and boulders	2.5	21
Refusal		at 21
ROCKLAND 50. Alt. about 125 ft.		
Driller's log.		
Sand, gravel, and boulders	10½	10½
Coarse sand and scattered gravel	6½	17
Sand, clay, sharp gravel, and boulders	3	20
Refusal		at 20
ROCKLAND 52. Alt. about 90 ft.		
Driller's log.		
Sand, gravel, and boulders	9	9
Refusal		at 9
ROCKLAND 53. Alt. about 90 ft.		
Driller's log.		
Sand, gravel, and boulders	11.3	11.3
Sand, brown, coarse; and gravel	9.7	21
Shale, soft	11	32
Refusal		at 32
ROCKLAND 54. Alt. about 110 ft.		
Driller's log.		
Loam and peat	1½	1½
Hard yellow clay, sharp rock and boulders	18	19½
Refusal		at 19½
ROCKLAND 56. Alt. about 95 ft.		
Driller's log.		
Loam	1	1
Sand, gravel, and clay	11½	12½
Hard yellow clay and sharp gravel	10½	23
Hard gray clay, sharp gravel and boulders	3½	26½
Refusal		at 26½
ROCKLAND 57. Alt. about 105 ft.		
Driller's log.		
Sand, gravel, and boulders	16.5	16.5
Clay, soft; little sand and fine gravel	36.5	53
Clay, hard; and black, sharp gravel	5.8	58.8
Refusal		at 58.8
ROCKLAND 58. Alt. about 120 ft.		
Driller's log.		
Sand and gravel	13	13
Hard clay and sharp gravel	12	25
Soft clay and fine gravel	18½	43½
Hard gray clay, sharp black gravel	4½	48
Refusal		at 48
ROCKLAND 59. Alt. about 115 ft.		
Driller's log.		
Sand, gravel, and clay	10	10
Hardpan and boulders	7	17
Refusal		at 17
ROCKLAND 61. Alt. about 105 ft.		
Driller's log.		
Sandy loam	2	2
Soft clay and sharp gravel	6½	8½
Hardpan and boulders	10½	19
Refusal		at 19
ROCKLAND 63. Alt. about 130 ft.		
Driller's log.		
Sand, gravel and boulders, and clay	15½	15½
Refusal		at 15½
ROCKLAND 64. Alt. about 130 ft.		
Driller's log.		
Sand, gravel, boulders and clay	19	19
Refusal		at 19
ROCKLAND 65. Alt. about 130 ft.		
Driller's log.		
Sand, gravel, boulders, and clay	20	20
Hardpan and boulders	3	23
Refusal		at 23
ROCKLAND 66. Alt. about 115 ft.		
Driller's log.		
Loam and gravel	1.5	1.5
Sand, hard packed; and clay	6.5	8.0
Hardpan and boulders	9.5	17.5
Refusal		at 17.5
ROCKLAND 68. Alt. about 140 ft.		
Driller's log.		
Loam and clay	1	1
Coarse sand and gravel	8	9
Hardpan and boulders	6	15
Sand, clay and sharp gravel	6	21
Refusal		at 21
ROCKLAND 70. Alt. about 110 ft.		
Driller's log.		
Loam, sand, and gravel, boulders and clay	17	17
Refusal		at 17
ROCKLAND 72. Alt. about 105 ft.		
Driller's log.		
Loam and sand	2	2
Hard-packed sand and gravel	8	10
Hardpan and boulders	8	18
Refusal		at 18
ROCKLAND 73. Alt. about 105 ft.		
Driller's log.		
Loam and sand	2	2
Hard-packed sand and gravel	10	12
Hardpan	12	24
Refusal		at 24
ROCKLAND 77. Alt. about 80 ft.		
Geologist's log of auger hole.		
Sand, fine to very fine	23	23
Clay, bluish-gray, silty, very compact	2	25
WEST BRIDGEWATER 3. Alt. about 65 ft. Driller's log.		
Loam	2	2
Clay, sand, and gravel	23	25
Sand, fine; and clay	3	28
Clay, sand, gravel, and hardpan	18	46
WEST BRIDGEWATER 5. Alt. about 65 ft. Driller's log.		
Peat and sand	4	4
Sand and gravel	14	18
Clay	4	22
Sand, coarse; and gravel	7.5	29.5
Hardpan	1	30.5
WEST BRIDGEWATER 8. Alt. about 55 ft. Driller's log.		
Loam	2	2
Clay and sand	11	13
Clay	20	33
Sand, gravel; some clay	6.5	39.5
WEST BRIDGEWATER 10. Alt. about 95 ft. Driller's log.		
Sand, medium	26	26
WEST BRIDGEWATER 12. Alt. about 95 ft. Driller's log.		
Loam	1	1
Sand, coarse	11	12
Sand, fine; and clay	64	76
Sand, fine; and gravel; some clay	2	78
Clay and shale	8	86
WEST BRIDGEWATER 13. Alt. about 80 ft. Driller's log.		
Loam	1	1
Sand, medium	5	6
Sand and gravel	22	28
Sand, fine; some gravel	7	35
Sand, coarse; and gravel	3	38
WEST BRIDGEWATER 75. Alt. about 120 ft. Geologist's log of auger hole.		
Sand, fine, some coarse grains	5	5
Sand, light brown, fine, well sorted	5	10
Sand, well sorted, brown, little clayey	5	15
Same, more clay	5	20
Sand, medium, with coarse grains	5	25

Table 3.--Logs of selected wells, test wells, and test holes in the Brockton-Pembroke area, Massachusetts--Continued

	Thickness	Depth
WEST BRIDGEWATER 75.--Continued		
Sand, brown, fine	5	30
Same, lighter color toward bottom	10	40
Sand, medium	3	43
Sand, gray, medium-fine, clayey	2	45
Sand, clayey, gray fine sand; clay increasing with depth	5	50
Sand, very fine clayey, gray	10	60
Hard at 60'--no sample	3	63
Blue clay with rock chips on bit. Probably refusal on bedrock		at 63
WHITMAN 5. Alt. about 80 ft.		
Geologist's log of auger hole.		
Sand, very fine, well sorted, becoming poorly sorted with coarse grains with depth	2	2
Clay, gray, with iron streaks	3	5
Clay, brown, very uniform	6	11
Sand, coarse, well sorted	27	38
Hard at 38'--no sample	2	40
Refusal		at 40
WHITMAN 12. Alt. about 65 ft.		
Geologist's log of auger hole.		
Sand, very fine, well sorted, tan	2	2
Sand, brown, fine, clayey	3	5
Clay, brown, clean, with gray streaks	3	8
Clay, gray, clean, sticky	27	35
Bedrock or boulder		
Refusal		at 35

	Thickness	Depth
WHITMAN 13. Alt. about 75 ft.		
Geologist's log of auger hole.		
Fill	3	3
Gravel, iron stained, well sorted	5	8
Sand, coarse, fine gravel, well sorted, some big gravel	14	22
Sand, very coarse and fine gravel with some fine material	6	28
Hard at 28'--no sample	9	37
Refusal on bedrock		at 37
Blue sandy clay on last 5' of auger stem.		
WHITMAN 14. Alt. about 90 ft.		
Geologist's log of auger hole.		
Fill	5	5
Clayey sand, and pebbles	2	7
Clay and silt with medium to coarse sand	3	10
No sample, few boulders and cobbles	5	15
Coarse sand, with fine sand and silt	5	20
No sample	3	23
Refusal		at 23
WHITMAN 15. Alt. about 85 ft.		
Geologist's log of auger hole.		
Sand, well sorted, medium	5	5
Sand, fine, brown, well sorted	9	14
Sand, brown, fine to medium with scattered coarse grains, more coarse with depth	6	20
No sample	6	26
Refusal on boulders		at 26
WHITMAN 17. Alt. about 90 ft.		
Geologist's log of auger hole.		
Fill, gravel	5	5
Sand and silt, carbonaceous	2	7
Clay, bluish-gray, silty	8	15
Till, light gray, silty	8	23
Bedrock		at 23

	Thickness	Depth
WHITMAN 18. Alt. about 80 ft.		
Geologist's log.		
1' topsoil; sand and gravel with some silt mixed in, light brown. Sand is medium to coarse, very angular, poorly sorted and mixed in with silt and angular gravel. Gravel ranges from small to medium in size and is very angular. Looks like till, quartz grains appear to be frosted		5.0-6.5
Upper 4"--Same as above; very coarse to medium sand mixed with very fine to medium gravel particles all angular and all mixed with silt. Loose sample. Lower 2"--Large rotten decayed fragments of what appears to be Rhode Island formation are mixed thoroughly with silt. Fragments of Rhode Island formation range from a fraction of an inch up to ½" long. All pieces of Rhode Island formation are angular. Some angular, coarse sand is also mixed in. A rather sharp break between the upper 4" and the lower 2"		10.0-11.5
Boulders encountered, dynamited way through		13-15
No sample		15-16.5
Clay-like material completely mixed up with angular sand, all sizes, and angular gravel particles. Color gray, probably due to large amounts of black shaly Rhode Island formation particles in the sample. About 40% of sample made up of Rhode Island formation. Looks like till		20-21.5
Same as above		25-26.5
Drilled 8'--recovered 7'7", Rhode Island formation		29-37
HOLBROOK 3. Alt. about 145 ft.		
Driller's log.		
Medium gravel	15	15
Coarse gravel	14	29
Tight gravel	4	33
Till	3	36

Table 4.--Chemical analyses of water from selected wells in the Brockton-Pembroke area, Massachusetts

(Analytical results in parts per million except as indicated.)

(Analyses made by the U. S. Geological Survey.)

Well no.	Location	Geologic unit	Temperature (°F)	Silica (SiO_2)	Total iron (Fe)	Manganese (Mn)	Calcium (Ca)	Magnesium (Mg)	Sodium (Na)	Potassium (K)	Bicarbonate (HCO_3)	Carbonate (CO_3)	Sulfate (SO_4)	Chloride (Cl)	Fluoride (F)	Nitrate (NO_3)	Dissolved solids (Residue on evaporation at 180°C)	Hardness as $CaCO_3$		Specific conductance (micromhos at 25°C)	pH	Date of collection
																		Calcium, magnesium	Noncarbonate			
Abington 9	W9-2e	Outwash	45	9.6	0.69	0.19	12	3.3	10	1.4	18	0	32	14	0.2	1.9	101	15	29	154	60	4-14-58
28	W9-2b	Bedrock	50	15	.06	.11	14	2.3	8.8	1.2	68	0	1.2	5.1	.1	.2	79	44	0	126	7.9	3-27-57
Brockton 18	W9-1h	do.	46	11	.00	.00	22	5.3	4.9	.6	83	0	12	4.0	.3	2.3	104	68	9	173	7.1	4-10-58
Duxbury 70	X9-6e	do.	48	5.3	.26	.00	8.4	2.0	4.1	1.4	18	0	14	8.0	.3	.6	59	15	14	89	6.2	4- 3-58
East Bridgewater 5	W9-8h	Outwash	55	12	.17	.02	29	8.7	21	2.0	22	0	8.2	36	.2	98	244	18	91	369	6.0	4-25-58
9	W9-6d	Bedrock	52	17	.08	.55	16	8.4	8.3	1.0	40	0	40	12	.3	1.7	123	33	42	191	6.7	4-25-58
31	W9-8e	do.	-	10	.00	.00	11	3.3	10	4.7	16	0	22	12	.3	22	107	13	28	161	5.9	4- 3-58
Hanson 22	X9-4h	Outwash	47	14	.10	.08	27	10	19	4.7	15	0	14	22	.2	122	268	13	96	362	6.0	4-24-58
Pembroke 41	X9-5h	do.	51	16	.00	.13	5.0	2.6	7.0	.6	17	0	8.2	8.2	.3	3.4	63	14	9	88	6.0	4- 3-58
132	X9-5c	Till	46	11	1.1	.12	6.4	3.4	8.7	2.0	22	0	18	13	.3	.8	77	18	12	126	6.0	4-23-58
215	X9-2f	do.	47	7.2	.05	.01	8.4	2.3	6.8	3.4	24	0	14	9.2	.2	.9	68	20	11	108	6.3	4-23-58

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts

(All water levels are given in feet below land-surface datum. Well numbers correspond to those shown on Table 2.)

ABINGTON 31
Alt. 77.57 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1957		1957		1958	
Apr. 1	2.45	Nov. 27	9.50	Mar. 5	3.53
29	2.72	28	9.52	6	3.55
May 15	3.70	29	9.53	7	3.37
31	4.18	30	9.51	8	3.84
June 17	5.44	Dec. 1	9.20	9	3.95
July 1	6.82	4	9.02	10	4.10
16	7.97	5	8.96	11	4.21
30	8.63	6	8.95	12	4.27
Aug. 16	9.20	7	9.01	13	4.35
Sept. 30	9.63	8	9.03	14	4.38
Oct. 7	9.76	9	9.00	15	3.99
8	9.75	10	8.87	16	3.33
9	9.58	11	7.83	17	3.48
10	9.40	12	6.96	18	3.58
11	9.27	13	6.63	19	3.63
12	9.18	14	6.59	20	3.63
13	9.11	15	6.58	21	3.59
14	9.07	16	6.51	22	3.35
15	9.04	17	6.52	23	3.28
16	8.98	18	6.55	24	3.37
17	8.90	19	7.60	25	3.39
18	8.90	20	9.59	26	3.43
19	8.89	21	6.52	27	3.55
20	8.82	22	6.27	28	3.65
21	8.74	23	6.06	29	3.65
22	8.31	24	5.64	30	4.02
23	6.71	25	5.75	31	4.00
24	6.74	26	5.77	Apr. 1	3.98
25	7.43	27	5.74	2	3.68
26	7.63	28	5.45	8	2.98
30	9.89	29	5.27	9	3.27
31	10.39	31	5.03	10	2.50
Nov. 1	10.72	1958		11	2.57
2	10.72	Jan. 1	5.03	15	3.31
3	10.72	2	4.95	16	3.45
4	10.43	3	4.95	17	3.56
5	9.88	4	4.95	18	3.61
6	9.73	5	4.94	21	3.98
7	9.74	6	5.34	22	3.98
8	9.82	7	5.48	May 5	3.49
9	9.85	8	5.37	6	3.42
10	9.68	14	6.38	7	3.42
11	9.57	20	4.80	19	.38
12	9.51	27	3.71	20	.38
13	9.58	28	3.79	21	.38
14	9.66	29	4.00	22	.42
15	9.66	30	4.09	23	.42
16	9.54	31	4.22	24	.41
18	9.48	Feb. 1	4.45	25	.41
19	9.48	2	4.57	26	.30
20	9.44	3	4.61	June 2	1.45
21	9.27	12	4.73	23	.58
22	9.23	19	4.52	30	1.86
23	9.15	24	4.92	July 7	4.97
25	9.22	Mar. 3	3.37	14	5.36
26	9.31	4	3.48		

ABINGTON 33
Alt. about 185 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1957		1957	
Apr. 1	2.11	July 16	9.37	Dec. 2	7.64
29	3.67	30	10.38	9	6.98
May 15	4.95	Aug. 16	11.34	17	4.02
31	5.27	Sept. 30	13.00	23	3.40
June 17	7.08	Oct. 9	13.19	30	2.10
July 1	8.21	Nov. 4	12.34		

ABINGTON 33--Continued
Alt. about 185 ft.

Date	Water level	Date	Water level	Date	Water level
1958		1958		1959	
Jan. 7	2.50	Aug. 11	7.03	Feb. 24	1.43
14	2.30	19	7.68	Mar. 2	3.62
20	1.79	25	7.95	9	2.04
27	.73	Sept. 2	6.85	16	.62
Feb. 3	1.64	9	7.49	24	1.67
10	1.87	15	7.98	30	1.98
Mar. 3	.99	23	5.75	Apr. 7	1.55
10	1.63	29	4.43	13	1.61
17	.85	Oct. 6	4.04	21	1.98
24	.59	13	4.77	27	2.21
31	1.78	20	5.36	May 4	2.04
Apr. 7	.66	27	4.19	11	3.42
14	1.08	Nov. 5	3.13	18	3.75
21	2.40	10	2.77	25	4.45
28	2.94	17	2.58	June 1	5.10
May 5	1.59	24	3.21	8	4.28
12	1.98	Dec. 1	3.50	15	2.85
19	3.05	8	2.00	22	2.71
26	3.22	15	2.88	29	2.79
June 2	3.73	22	3.36	July 7	3.74
10	5.56	29	4.07	13	2.64
16	5.01	1959		21	.97
23	5.10	Jan. 5	4.32	27	2.99
30	5.98	12	4.45	Aug. 3	4.34
July 7	6.69	19	4.02	10	5.28
14	7.16	26	3.57	17	6.09
21	7.53	Feb. 2	4.16	24	7.00
28	7.46	9	3.97	Sept. 2	6.83
Aug. 5	6.38	16	3.14	7	6.84

ABINGTON 34
Alt. about 152 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Dec. 2	10.54	June 30	7.58	Mar. 9	5.80
9	9.97	July 7	8.31	16	5.52
17	7.27	21	8.84	24	5.78
23	6.35	28	8.80	30	5.71
30	5.90	Aug. 5	7.53	Apr. 7	5.73
1958		11	8.58	13	5.70
Jan. 7	5.93	20	9.28	21	5.69
14	5.96	27	9.60	27	5.67
20	5.85	Sept. 2	8.28	May 4	5.75
27	5.63	9	8.90	11	5.09
Feb. 3	5.80	16	9.32	18	5.95
10	5.91	23	7.00	25	6.25
Mar. 3	5.80	29	6.11	June 1	6.58
10	5.80	Oct. 6	6.10	8	5.97
17	5.67	13	6.53	15	5.70
24	5.66	20	6.95	22	5.93
31	5.83	27	5.80	29	5.81
Apr. 7	5.58	Nov. 5	5.80	July 7	6.13
14	5.73	10	5.75	13	5.89
21	5.87	17	5.85	21	5.76
28	5.77	24	5.87	27	6.07
May 5	5.72	Dec. 1	5.90	Aug. 3	6.98
12	5.81	8	5.88	10	7.64
19	5.89	15	5.99	17	8.60
26	5.73	22	6.36	24	9.51
June 2	5.98	29	6.34	Sept. 2	9.17
10	6.15	1959		8	9.19
16	6.47	Feb. 24	5.91		
23	6.58	Mar. 2	5.72		

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

AVON 1
Alt. about 210 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1958	
Apr. 18	10.34	Jan. 27	11.44	June 16	13.02
29	10.56	Feb. 2	12.16	23	12.87
May 15	10.78	10	12.47	30	13.19
31	10.76	19	12.75	July 7	13.11
June 17	11.26	24	12.80	14	13.28
July 1	11.54	Mar. 3	12.06	21	13.43
16	11.25	10	12.33	28	12.09
30	11.91	17	11.81	Aug. 5	13.07
Aug. 16	12.15	24	11.50	11	13.36
Sept. 30	11.90	31	12.13	19	13.27
Oct. 9	11.36	Apr. 7	11.41	25	13.30
Nov. 4	10.74	14	11.47	Sept. 2	13.01
Dec. 2	10.73	21	12.34	9	13.12
9	12.77	28	12.30	15	13.23
17	12.33	May 5	12.19	23	12.71
23	12.46	12	11.95	29	12.08
30	12.23	19	12.46	Oct. 13	12.72
1958		26	12.47	20	12.89
Jan. 7	12.10	June 2	12.88	27	12.28
14	12.58	10	12.86	Nov. 5	11.97
20	12.33				

EAST BRIDGEWATER 25
Alt. about 77 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Apr. 1	8.40	May 12	6.09	Jan. 5	9.41
29	7.64	19	6.51	12	9.60
May 15	8.19	26	6.58	19	9.61
31	8.82	June 2	7.11	26	9.69
June 17	9.18	10	7.37	Feb. 2	9.58
July 1	9.78	16	7.74	9	9.72
16	10.48	23	7.96	16	8.92
30	10.99	30	8.33	Mar. 2	9.01
Aug. 16	11.46	July 7	8.48	9	8.26
Sept. 30	12.62	14	8.77	16	8.07
Oct. 9	12.70	21	9.26	24	8.20
Nov. 4	12.92	28	8.94	30	8.08
Dec. 2	12.74	Aug. 5	9.17	Apr. 7	7.49
9	12.72	11	9.64	13	7.52
17	12.14	19	9.38	21	7.48
23	12.00	25	9.79	27	7.72
30	11.78	Sept. 2	9.79	May 4	7.91
1958		9	9.86	11	8.00
Jan. 7	11.15	15	10.30	18	8.47
14	10.27	23	10.30	25	8.57
20	9.83	29	9.99	June 1	9.13
27	8.98	Oct. 6	9.57	8	9.32
Feb. 3	8.40	13	9.55	15	10.08
10	8.46	20	9.76	22	9.74
19	9.64	27	9.61	29	9.49
Mar. 3	7.75	Nov. 5	9.15	July 7	11.05
10	7.63	10	9.19	13	9.21
17	7.40	17	8.26	21	8.89
24	7.05	24	9.28	27	9.64
31	6.90	Dec. 1	8.39	Aug. 3	10.16
Apr. 7	6.24	8	9.21	10	11.14
14	5.76	15	8.98	17	10.86
21	6.10	22	9.14	24	11.05
28	6.23	29	9.27	Sept. 2	11.46
May 5	6.24			8	10.70

EAST BRIDGEWATER 27
Alt. about 76 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1957		1958	
Dec. 2	8.86	Dec. 30	2.80	Jan. 20	1.90
9	8.66	1958		27	1.15
17	4.80	Jan. 7	3.00	Feb. 3	1.84
23	4.25	14	2.69	10	2.23

EAST BRIDGEWATER 27--Continued
Alt. about 76 ft.

Date	Water level	Date	Water level	Date	Water level
1958		1958		1959	
Feb. 19	3.22	Sept. 2	5.25	Mar. 9	2.59
24	3.44	9	6.40	16	1.56
Mar. 3	1.43	15	6.76	24	1.97
10	1.70	23	4.48	30	1.49
17	1.22	29	2.46	Apr. 7	1.82
20	1.23	Oct. 6	3.19	13	1.94
31	1.96	13	4.59	21	2.20
Apr. 7	0.99	20	5.54	27	2.21
14	1.57	27	2.86	May 4	2.56
21	2.44	Nov. 5	2.28	11	4.11
28	2.08	10	2.29	18	4.97
May 5	1.60	17	3.20	25	5.97
12	2.00	24	3.88	June 1	6.63
19	2.85	Dec. 1	3.20	8	6.42
26	2.27	8	2.64	15	4.90
June 2	3.31	15	3.56	22	5.57
10	3.80	22	4.28	29	5.65
16	4.44	29	5.34	July 7	6.39
23	4.65	1959		13	5.24
30	5.88	Jan. 5	4.29	21	4.12
July 7	12.70	12	5.96	27	5.35
14	7.06	19	5.99	Aug. 3	6.63
21	7.09	25	5.19	10	7.09
28	7.51	Feb. 2	5.71	17	7.98
Aug. 5	4.62	9	5.73	24	8.41
11	6.04	16	4.00	Sept. 2	8.27
19	6.72	24	4.53	8	8.77
25	6.76	Mar. 2	4.35		

EAST BRIDGEWATER 28
Alt. about 85 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Dec. 2	16.83	July 7	10.73	Feb. 9	13.08
9	16.99	14	11.08	16	12.72
17	16.63	21	11.38	24	12.60
23	16.20	28	11.68	Mar. 2	12.73
30	15.79	Aug. 5	11.98	9	12.30
1958		11	12.21	16	12.17
Jan. 7	15.28	19	12.51	24	11.83
14	14.71	25	12.69	30	11.73
20	13.93	Sept. 2	12.93	Apr. 7	11.40
27	13.33	9	12.12	13	11.17
Feb. 3	12.59	15	13.27	21	11.03
10	12.20	23	13.42	27	11.05
19	12.00	29	13.48	May 4	11.02
24	12.03	Oct. 6	13.23	11	11.05
Mar. 3	11.58	13	13.09	18	11.28
10	11.44	20	13.09	25	11.51
17	11.34	27	13.21	June 1	11.74
24	11.12	Nov. 5	13.10	8	11.94
31	11.36	10	12.91	15	12.10
Apr. 7	9.89	17	12.78	22	9.16
14	9.23	24	12.67	29	12.17
21	8.87	Dec. 1	12.71	July 7	12.28
28	8.73	8	12.63	13	10.30
May 5	8.50	22	12.49	21	11.88
12	8.20	29	12.64	27	11.74
19	8.40	1959		Aug. 3	11.80
26	8.77	Jan. 5	12.65	10	12.16
June 2	9.08	12	12.81	17	12.43
10	9.48	19	12.99	24	12.65
16	9.75	26	12.96	Sept. 3	12.41
23	10.00	Feb. 2	13.03	8	13.09
30	10.41				

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

EAST BRIDGEWATER 30
Alt. about 85 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1958		1958	
July 21	9.30	Oct. 7	9.50	Dec. 16	8.03
22	9.34	8	9.36	17	8.03
23	9.38	9	9.22	18	8.12
24	9.44	10	9.16	19	8.13
25	9.52	11	9.16	20	8.30
26	9.64	12	9.29	21	8.43
27	9.60	13	9.36	22	8.45
28	9.73	14	9.39	23	8.30
29	9.85	15	9.35	24	8.49
30	9.81	16	9.35	25	8.65
31	9.84	17	9.41	26	8.69
Aug. 1	9.84	18	9.58	27	8.73
2	9.82	19	9.61	28	8.81
3	9.73	20	9.75	29	8.83
6	9.70	21	9.83	30	8.89
7	9.67	22	9.85	31	8.99
8	9.67	23	9.84	1959	
9	9.73	24	9.91	Jan. 1	9.00
10	9.80	25	9.95	2	8.95
11	9.92	26	9.95	3	8.93
12	9.96	27	9.92	4	8.93
13	10.01	28	9.91	5	8.95
14	10.05	29	9.81	11	9.28
15	10.12	30	9.72	13	9.38
16	10.14	31	9.63	14	9.41
17	10.19	Nov. 1	9.46	15	9.40
18	10.27	2	9.44	16	9.43
19	10.38	3	9.24	17	9.67
20	10.42	4	9.21	18	9.73
21	10.48	5	9.10	19	9.74
22	10.56	6	8.95	20	9.79
23	10.58	7	8.84	21	9.78
25	10.65	8	8.79	22	9.79
26	10.68	9	8.67	23	9.84
27	10.73	10	8.53	24	9.84
28	10.73	11	8.46	25	9.72
29	10.74	12	8.36	26	9.77
30	10.74	13	8.32	27	9.74
31	10.72	14	8.20	28	9.75
Sept. 1	10.65	15	8.08	29	9.78
2	10.68	16	8.14	30	10.75
3	10.70	17	8.12	Feb. 1	9.88
4	10.69	18	8.05	2	9.91
5	10.63	19	8.07	3	9.91
6	10.64	20	8.14	4	9.75
7	10.57	21	8.20	5	9.81
8	10.68	22	8.39	6	9.90
9	10.74	23	8.44	7	9.93
10	10.76	24	8.48	8	9.94
11	10.83	25	8.58	9	9.94
12	10.86	26	8.57	10	9.77
13	10.89	27	8.70	11	9.50
14	10.94	28	8.72	12	9.52
15	10.97	29	8.63	13	9.35
16	11.01	30	8.79	16	9.01
17	11.04	Dec. 1	8.78	17	8.95
18	11.05	2	8.57	18	8.83
19	11.08	3	8.57	19	8.86
25	10.94	4	8.41	20	8.90
26	10.91	5	8.37	21	8.90
27	10.92	6	8.25	22	8.89
28	10.90	7	8.17	25	8.98
29	10.86	8	8.00	26	8.99
30	10.77	9	7.86	27	9.10
Oct. 1	10.60	10	7.83	28	9.13
2	10.48	11	7.80	Mar. 1	9.10
3	10.28	12	7.72	2	8.86
4	10.02	13	7.92	3	8.78
5	9.75	14	7.94	4	8.70
6	9.63	15	7.84	5	8.70

EAST BRIDGEWATER 30--Continued
Alt. about 85 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1959		1959		1959	
Mar. 6	8.56	May 21	6.73	Aug. 6	8.93
7	8.23	22	6.82	7	9.04
8	8.21	23	7.01	8	9.17
9	8.04	24	7.17	9	9.26
10	7.88	25	7.27	10	9.39
11	7.90	26	7.35	11	9.51
12	7.83	27	7.44	12	9.63
13	7.63	28	7.56	13	9.72
14	7.65	29	7.67	14	9.83
15	7.55	30	7.77	15	9.91
16	7.07	31	7.95	16	10.00
17	6.78	June 1	7.97	17	10.10
18	6.48	2	8.05	18	10.20
19	6.37	3	8.14	19	10.30
20	6.23	4	8.21	20	10.38
21	6.17	5	8.22	21	10.46
22	6.02	6	8.25	22	10.58
23	5.92	7	8.32	23	10.67
24	5.60	8	8.31	24	10.73
25	5.62	9	8.36	25	10.81
26	5.56	10	8.39	26	10.89
27	5.54	11	8.50	27	10.96
28	5.79	12	8.50	28	11.04
29	5.80	13	8.50	29	11.12
30	5.61	14	8.57	30	11.21
31	5.43	15	8.59	31	11.28
Apr. 1	5.31	16	8.64	Sept. 1	11.29
2	5.14	17	8.65	2	11.34
3	4.82	18	8.64	3	11.41
4	4.44	19	8.58	4	11.47
5	4.51	20	8.51	5	11.53
6	4.57	21	8.35	6	11.59
7	4.47	22	8.26	7	11.65
8	4.64	23	8.15	8	11.68
9	4.74	24	8.10	9	11.72
10	4.79	25	8.01	10	11.74
11	4.68	26	7.93	11	11.79
12	4.51	27	7.96	12	11.87
13	4.52	28	7.97	13	11.94
14	4.64	29	7.91	14	12.11
15	4.86	30	8.09	23	12.53
16	4.95	July 1	8.18	24	12.58
17	5.18	2	8.24	25	12.65
18	5.22	3	8.34	26	12.70
19	5.22	4	8.41	27	12.76
20	5.25	5	8.48	28	12.81
21	5.18	6	8.52	29	12.87
22	5.21	7	8.66	30	12.92
29	5.26	8	8.72	Oct. 1	12.97
30	5.08	9	8.77	2	13.05
May 1	4.96	10	8.85	3	13.09
2	4.77	11	8.86	4	13.15
3	4.61	12	8.81	5	13.20
4	4.93	13	8.73	6	13.27
5	5.03	21	6.61	7	13.32
6	5.19	22	7.05	8	13.37
7	5.24	23	7.11	9	13.42
8	5.56	24	7.18	10	13.48
9	5.63	25	7.23	11	13.49
10	5.73	26	7.45	12	13.55
11	5.85	27	7.67	13	13.58
12	5.92	28	7.82	14	13.59
13	5.99	29	7.96		13.64
14	6.07	30	8.07	16	13.67
15	6.19	31	8.15	17	13.68
16	6.32	Aug. 1	8.33	18	13.72
17	6.39	2	8.46	19	13.76
18	6.55	3	8.59	20	13.79
19	6.55	4	8.69	21	13.86
20	6.67	5	8.81	22	13.87

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

EAST BRIDGEWATER 30--Continued
Alt. about 85 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1959		1960		1960	
Oct. 23	13.87	Jan. 1	8.40	Mar. 11	5.37
24	13.88	2	8.25	12	5.47
25	13.92	3	7.92	13	5.57
26	13.95	4	7.81	14	5.64
27	13.97	5	7.50	15	5.69
28	14.01	6	7.17	16	5.69
29	14.02	7	6.86	17	5.58
30	14.01	8	6.79	18	5.23
31	13.93	9	6.69	19	4.85
Nov. 1	13.93	10	6.99	20	4.69
2	13.93	11	6.96	21	4.37
3	13.95	12	7.03	22	4.29
4	13.93	13	7.06	23	4.47
5	13.92	14	7.04	24	4.42
6	13.90	15	7.15	25	4.47
7	13.87	16	7.14	26	4.47
8	13.86	17	7.25	27	4.53
9	13.83	18	7.37	28	4.41
10	13.80	19	7.39	29	4.42
11	13.78	20	7.12	30	4.25
12	13.72	21	7.23	31	4.11
13	13.69	22	7.27	Apr. 1	3.95
14	13.67	23	7.39	2	3.89
15	13.61	24	7.50	3	3.92
16	13.59	25	7.53	4	3.82
17	13.55	26	7.53	5	3.32
18	13.51	27	7.66	6	2.81
19	13.50	28	7.67	7	3.07
20	13.46	29	7.64	8	3.22
21	13.45	30	7.37	9	3.37
22	13.42	31	7.25	10	3.59
23	13.39	Feb. 1	7.17	11	3.64
24	13.37	2	7.00	12	3.83
25	13.33	3	6.99	13	4.00
26	13.36	4	7.30	14	4.02
27	13.36	5	7.56	15	4.22
28	13.28	6	7.52	16	4.29
29	13.18	7	7.23	17	4.28
30	13.11	8	7.28	18	4.57
Dec. 1	14.00	9	7.24	19	4.65
2	13.87	10	7.41	20	4.68
3	13.67	11	7.28	21	4.75
4	13.47	12	7.12	22	4.98
5	12.31	13	7.02	23	5.02
6	12.12	14	7.74	24	5.02
7	11.97	15	6.32	25	4.87
8	11.82	16	6.15	26	4.92
9	11.67	17	6.00	27	5.05
10	11.53	18	6.04	28	5.16
11	11.40	19	5.67	29	5.33
12	11.27	20	5.04	30	5.39
13	11.05	21	4.99	May 1	5.39
14	10.98	22	5.02	2	5.52
15	10.82	23	5.19	3	5.62
16	10.45	24	5.27	4	5.68
17	10.15	25	5.00	5	5.75
18	9.87	26	4.82	6	5.85
19	9.57	27	3.94	7	5.93
20	9.40	28	4.02	8	5.97
21	9.29	29	4.19	9	6.05
22	9.10	Mar. 1	4.38	10	6.23
23	9.03	2	4.49	11	6.35
24	9.00	3	4.49	12	7.43
25	8.92	4	4.76	13	7.43
26	8.83	5	5.00	14	7.41
27	8.82	6	5.13	15	6.37
28	8.76	7	5.15	16	6.51
29	8.66	8	5.17	17	6.57
30	8.63	9	5.29	18	6.74
31	8.53	10	5.32	19	6.82

EAST BRIDGEWATER 30--Continued
Alt. about 85 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1960		1960		1960	
May 20	6.85	July 22	11.56	Sept. 9	14.35
21	7.01	23	11.63	10	14.41
22	7.10	24	11.70	11	14.46
23	7.13	25	11.77	12	14.49
24	7.23	26	11.82	13	14.56
25	7.32	27	11.87	14	14.62
26	7.37	28	11.92	15	14.67
27	7.42	29	11.98	16	14.72
28	7.49	30	12.02	17	14.76
29	7.53	31	12.11	18	14,79
30	7.58	Aug. 1	12.17	19	14.83
31	7.66	2	12.20	20	14.86
June 1	7.78	3	12.26	21	14.86
2	7.88	4	12.32	22	14.85
3	7.96	5	12.38	23	14.75
4	8.03	6	12.44	24	14.58
5	8.03	7	12.49	25	14.56
6	8.11	8	12.54	26	14.44
7	8.22	9	12.61	27	14.30
8	8.29	10	12.66	28	14.19
9	8.37	11	12.73	29	14.08
10	8.40	12	12.79	30	14.00
11	8.42	13	12.85	Oct. 1	13.93
12	8.52	14	12.90	2	13.89
13	8.63	15	12.97	3	13.82
14	8.74	16	13.03	4	13.78
15	8.80	17	13.08	5	13.75
16	8.92	18	13.13	6	13.71
17	8.99	19	13.19	7	13.68
18	9.12	20	13.25	8	13.68
19	9.21	21	13.30	9	13.66
20	9.31	22	13.35	10	13.65
21	9.41	23	13.41	11	13.64
22	9.47	24	13.46	12	13.63
23	9.55	26	13.50	13	13.63
24	9.58	27	13.55	14	13.63
25	9.76	28	13.61	15	13.64
26	9.86	29	13.66	16	13.66
27	9.88	30	13.72	17	13.68
28	10.02	31	13.87	18	13.74
29	10.07	Sept. 1	13.92	19	13.75
30	10.17	2	13.98	20	13.76
July 1	10.25	3	14.04	21	13.78
2	10.33	4	14.08	22	13.81
3	10.36	5	14.14	23	13.81
4	10.47	6	14.20	24	13.85
5	10.51	7	14.25	25	13.92
6	10.59	8	14.30	Nov. 21	13.25
7	10.67				

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

HALIFAX 27
Alt. about 64 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1958	
Apr. 16	9.89	Mar. 24	12.00	Dec. 22	11.01
22	9.71	31	11.73	29	11.02
29	9.56	Apr. 8	11.31	1959	
May 3	9.50	14	11.10	Jan. 5	11.00
7	9.49	21	10.74	12	11.07
15	9.45	28	10.46	19	11.10
22	9.53	May 5	10.13	26	11.13
31	9.67	12	9.83	Feb. 2	11.17
June 17	9.97	19	9.56	9	11.20
July 1	10.26	26	9.37	16	10.94
8	10.45	June 2	9.22	24	10.98
17	10.62	10	9.14	Mar. 2	10.86
23	10.76	16	9.08	9	10.73
31	10.95	23	9.08	16	10.50
Aug. 2	11.09	30	9.87	24	10.38
9	11.32	July 7	9.28	30	10.36
18	11.51	14	9.42	Apr. 7	10.06
23	11.75	21	9.54	13	9.95
Sept. 1	11.77	28	9.66	21	9.79
8	12.04	Aug. 5	9.80	27	9.67
30	12.47	11	9.88	May 4	9.60
Oct. 9	12.68	19	11.93	11	9.53
Nov. 4	13.20	25	10.12	18	9.53
Dec. 2	13.64	Sept. 2	10.24	25	9.53
9	13.76	9	10.33	June 8	9.65
23	13.90	15	10.44	15	9.70
30	13.89	23	10.56	22	9.77
1958		29	10.64	29	9.80
Jan. 7	13.96	Oct. 6	10.69	July 7	9.89
14	13.74	13	10.76	13	9.92
20	13.56	20	10.85	21	9.96
27	13.40	27	10.93	27	9.86
Feb. 3	13.13	Nov. 5	10.98	Aug. 3	9.93
10	12.90	10	10.98	10	9.97
19	12.82	17	10.98	17	10.07
24	12.76	24	10.96	24	10.19
Mar. 3	12.70	Dec. 1	11.02	Sept. 2	10.37
10	12.59	8	11.03	8	10.43
17	12.32	15	10.97		

HALIFAX 28
Alt. about 82 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1958	
Dec. 2	35.20	May 26	23.25	Nov. 24	32.35
9	35.19	June 2	24.73	Dec. 1	32.20
17	34.98	10	26.01	8	31.96
23	34.60	16	26.73	15	31.61
30	34.52	23	27.60	22	31.43
1958		30	28.39	29	31.38
Jan. 7	34.17	July 7	28.80	1959	
14	33.92	14	29.45	Jan. 5	31.35
20	33.63	21	29.95	12	33.13
27	32.48	28	30.42	19	31.28
Feb. 3	30.29	Aug. 5	30.68	26	31.17
10	28.98	11	31.02	Feb. 2	31.15
19	28.72	19	31.46	9	31.20
24	29.23	25	31.68	16	31.10
Mar. 3	29.41	Sept. 2	31.92	24	30.81
10	29.40	9	32.11	Mar. 2	30.78
17	29.56	15	32.29	9	30.70
24	29.08	23	32.45	16	30.53
31	26.04	29	32.55	24	30.44
Apr. 8	24.84	Oct. 6	32.64	30	31.31
14	23.08	13	32.70	Apr. 7	30.69
21	22.17	20	32.76	13	30.22
28	22.08	27	32.74	21	29.23
May 5	22.84	Nov. 5	32.58	27	29.00
12	22.48	10	32.57	May 4	29.00
19	22.28	18	32.47	11	28.98

HALIFAX 28
Alt. about 82 ft.

Date	Water level	Date	Water level	Date	Water level
1959		1959		1959	
May 18	29.09	June 29	30.75	Aug. 10	31.69
25	29.40	July 7	31.04	17	31.90
June 1	29.68	13	31.21	24	32.06
8	29.94	21	31.35	Sept. 2	32.20
15	31.19	27	31.49	8	32.32
22	30.51	Aug. 3	31.66		

HALIFAX 29
Alt. about 63 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Sept. 30	16.37	June 23	10.96	Jan. 19	13.52
Oct. 9	16.67	30	11.24	26	13.58
Nov. 4	17.42	July 7	11.50	Feb. 2	13.65
Dec. 9	17.99	14	11.78	9	13.60
17	17.95	21	13.02	16	13.30
23	17.85	28	12.29	24	12.78
30	17.75	Aug. 5	12.54	Mar. 2	13.24
1958		11	12.56	9	12.73
Jan. 7	17.57	19	12.89	16	12.58
14	17.13	25	13.05	24	12.28
20	16.65	Sept. 2	13.14	30	12.06
27	16.15	9	13.10	Apr. 7	11.83
Feb. 3	15.66	15	13.25	13	11.64
10	15.24	23	13.50	21	11.50
19	15.08	29	13.43	27	11.46
24	15.05	Oct. 6	13.49	May 4	11.41
Mar. 3	14.94	13	13.41	11	11.38
10	14.69	20	13.45	18	11.54
17	14.39	27	13.54	25	11.60
24	13.79	Nov. 5	13.58	June 1	11.71
31	13.32	10	13.31	8	11.87
Apr. 8	12.79	17	13.24	15	11.93
14	12.26	24	13.17	22	12.01
21	12.03	Dec. 11	13.22	29	11.95
28	11.10	8	13.18	July 7	12.09
May 5	10.80	15	13.12	13	12.14
12	10.49	22	13.14	21	12.11
19	10.46	29	13.22	27	11.98
26	10.40	1959		Aug. 3	12.17
June 2	10.49	Jan. 5	13.30	10	12.31
10	10.62	12	13.43	13	12.58
16	10.76				

HANSON 23
Alt. about 83 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1958	
Dec. 17	15.66	May 19	12.56	Oct. 20	15.20
23	15.69	26	13.18	27	15.37
30	15.45	June 2	13.39	Nov. 5	13.87
1958		10	13.78	10	13.81
Jan. 7	14.31	16	14.21	17	13.98
14	15.82	23	14.42	24	14.29
20	13.18	30	14.82	Dec. 1	14.44
27	11.90	July 7	15.29	8	13.90
Feb. 3	12.18	14	16.67	15	14.09
10	13.07	21	16.02	22	14.55
19	13.88	28	16.32	29	14.93
24	14.24	Aug. 5	16.10	1959	
Mar. 3	13.33	11	16.14	Jan. 5	14.86
10	13.38	19	16.49	12	15.21
17	12.25	25	16.64	19	15.57
24	11.20	Sept. 2	15.99	26	15.24
31	12.01	9	16.13	Feb. 2	15.63
Apr. 7	11.20	15	16.43	9	15.51
14	10.69	23	15.91	16	14.63
21	11.97	29	14.90	24	14.49
28	12.09	Oct. 6	14.08	Mar. 2	14.81
May 12	11.57	13	14.63	9	13.52

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

HANSON 23--Continued
Alt. about 83 ft.

Date	Water level	Date	Water level	Date	Water level
1959		1959		1959	
Mar. 16	13.28	May 18	14.30	July 21	14.00
24	12.77	25	14.71	27	9.48
30	13.24	June 1	15.18	Aug. 3	10.29
Apr. 7	12.38	8	15.11	10	11.01
13	12.88	15	15.34	17	12.59
21	13.42	22	14.96	24	16.99
27	13.78	29	14.90	Sept. 2	17.35
May 4	13.54	July 7	10.14	8	17.45
11	13.89	13	10.03		

HANSON 45
Alt. about 64 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1958		1958	
May 21	9.90	July 21	10.82	Oct. 9	10.30
22	9.95	22	10.83	10	10.33
23	9.98	23	10.83	11	10.37
24	10.01	24	10.79	12	10.41
25	10.08	25	10.80	13	10.43
26	9.99	26	10.80	14	10.45
27	10.01	27	10.80	15	10.47
28	10.02	28	10.84	16	10.49
29	10.01	29	10.84	17	10.51
30	10.04	30	10.71	18	10.54
31	10.06	Aug. 1	10.71	19	10.56
June 1	10.09	2	10.67	20	10.58
2	10.11	3	10.65	21	10.60
3	10.09	4	10.68	22	10.61
4	10.11	5	10.62	23	10.61
5	10.13	6	10.65	24	10.55
6	10.16	7	10.68	25	10.54
7	10.19	8	10.69	26	10.47
8	10.21	9	10.73	27	10.37
9	10.22	10	10.75	28	10.30
10	10.24	11	10.81	29	10.26
11	10.25	12	10.83	30	10.22
12	10.28	13	10.83	Nov. 1	10.24
13	10.30	14	10.81	2	10.25
14	10.32	15	10.82	3	10.25
15	10.34	16	10.81	4	10.13
16	10.37	17	10.76	5	10.05
17	10.40	18	10.76	6	10.05
18	10.42	19	10.79	7	10.07
19	10.42	20	10.82	8	10.10
20	10.43	21	10.83	9	10.10
24	10.46	22	10.84	10	10.08
25	10.49	23	10.86	11	10.01
26	10.50	24	10.87	12	10.03
27	10.53	25	10.87	13	10.05
28	10.55	26	10.73	14	10.07
29	10.58	27	10.67	15	10.10
30	10.59	28	10.64	16	10.14
July 1	10.60	29	10.63	25	10.40
2	10.64	30	10.57	26	10.40
3	10.64	31	10.55	27	10.42
4	10.66	Sept. 1	10.58	28	10.43
5	10.67	25	10.61	29	10.42
8	10.78	26	10.65	30	10.32
9	10.78	27	10.65	Dec. 9	10.09
10	10.73	28	10.55	10	10.13
11	10.74	29	10.31	11	10.15
12	10.74	30	10.20	12	10.19
13	10.74	Oct. 1	10.19	13	10.23
14	10.75	2	10.13	14	10.25
15	10.75	3	10.08	15	10.27
16	10.76	4	10.10	16	10.29
17	10.77	5	10.16	17	10.31
18	10.78	6	10.21	18	10.33
19	10.78	7	10.24	19	10.35
20	10.81	8	10.27	20	10.36

HANSON 45--Continued
Alt. about 64 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1959		1959	
Dec. 21	10.39	Mar. 10	9.85	May 21	10.36
22	10.41	11	9.92	22	10.38
23	10.42	12	9.92	23	10.41
24	10.44	13	9.82	24	10.93
25	10.47	14	9.91	25	10.44
26	10.49	15	9.92	26	10.46
27	10.51	16	9.90	27	10.49
28	10.52	17	9.64	28	10.50
29	10.54	18	9.70	29	10.51
30	10.54	19	9.73	30	10.53
31	10.54	20	9.76	31	10.55
1959		21	9.78	June 1	10.57
Jan. 1	10.54	22	9.78	2	10.57
2	10.42	23	9.66	3	10.52
3	10.41	24	9.66	4	10.46
5	10.42	25	9.70	5	10.48
6	10.45	26	9.75	6	10.48
7	10.50	27	9.77	7	10.40
8	10.52	28	9.83	8	10.39
9	10.54	29	9.85	9	10.43
10	10.56	31	9.88	10	10.47
11	10.59	Apr. 1	9.82	11	10.51
12	10.62	2	9.80	12	10.54
13	10.63	3	9.74	13	10.54
14	10.64	4	9.53	14	10.49
15	10.64	5	9.51	15	10.42
16	10.64	7	9.59	16	10.37
17	10.60	8	9.64	17	10.38
18	10.59	9	9.69	18	10.37
19	10.58	10	9.72	19	10.34
20	10.65	11	9.72	20	10.28
21	10.63	12	9.74	21	10.28
22	10.56	13	9.77	22	10.31
26	10.44	14	9.80	23	10.30
27	10.46	15	9.80	24	10.29
28	10.48	16	9.87	25	10.29
29	10.50	17	9.91	26	10.29
30	10.51	18	9.93	27	10.31
Feb. 1	10.53	19	9.97	28	10.31
2	10.55	20	9.97	29	10.31
3	10.56	21	9.95	30	10.34
4	10.62	22	9.99	July 1	10.38
5	10.48	23	10.03	2	10.41
6	10.47	24	10.06	3	10.42
7	10.48	25	10.08	4	10.39
8	10.50	26	10.10	5	10.43
9	10.50	27	10.10	6	10.45
10	10.51	28	10.01	7	10.50
11	10.37	29	10.02	8	10.53
12	10.33	30	9.99	9	10.55
13	10.33	May 1	9.98	10	10.56
14	10.27	2	9.94	11	10.56
15	10.22	3	9.93	12	10.39
16	10.08	4	9.94	13	10.35
17	10.09	5	9.96	14	10.33
18	10.10	6	10.00	15	10.33
19	10.07	7	10.03	16	10.11
20	10.12	8	10.05	17	9.99
21	10.17	9	10.09	18	10.00
22	10.22	10	10.12	19	10.04
23	10.23	11	10.15	20	10.05
24	10.28	12	10.17	21	10.05
25	10.31	13	10.18	27	10.43
26	10.34	14	10.17	28	10.40
27	10.36	15	10.20	29	10.43
28	10.38	16	10.23	30	10.47
Mar. 1	10.39	17	10.25	31	10.49
2	10.32	18	10.30	Aug. 1	10.52
3	10.10	19	10.31	2	10.56
9	9.79	20	10.34	3	10.58

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

HANSON 45--Continued
Alt. about 64 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1959		1959		1960	
Aug. 4	10.60	Oct. 19	10.68	Apr. 23	9.82
5	10.60	20	10.69	24	9.83
6	10.62	21	10.70	25	9.81
7	10.64	22	10.71	26	9.84
8	10.65	23	10.71	27	9.85
9	10.65	24	10.70	28	9.88
10	10.66	27	10.48	29	9.90
17	10.81	28	10.46	30	9.92
18	10.82	29	10.44	May 1	9.94
19	10.84	30	10.43	2	9.94
20	10.85	31	10.42	3	9.96
21	10.87	Nov. 1	10.38	4	9.97
22	10.88	2	10.38	5	9.99
23	10.90	3	10.38	6	10.01
24	10.90	4	10.39	7	10.03
25	10.91	5	10.39	8	10.03
26	10.92	6	10.40	9	10.04
27	10.95	7	10.40	10	10.06
28	10.96	8	10.37	11	10.09
29	10.96	10	10.35	12	10.10
30	10.96	11	10.35	13	10.07
31	10.90	12	10.35	14	10.00
Sept. 1	10.83	13	10.36	15	9.99
2	10.81	14	10.38	16	10.02
3	10.81	15	10.39	17	10.05
4	10.82	16	10.39	18	10.08
5	10.84	17	10.39	19	10.10
6	10.87	18	10.39	20	10.12
7	10.88	19	10.39	21	10.13
8	10.92	20	10.39	22	10.15
9	10.94	21	10.39	23	10.16
10	10.94	22	10.42	24	10.16
11	10.95	23	10.42	25	10.14
12	10.97	24	10.42	26	10.16
13	10.98	25	10.32	27	10.16
14	10.98	26	10.13	28	10.17
15	10.98	27	10.04	29	10.19
16	10.98	28	9.99	30	10.21
17	10.99	29	9.93	31	10.21
18	11.01	30	9.87	June 1	10.21
19	11.01	Dec. 1	9.86	2	10.19
20	11.02	2	9.88	3	10.20
21	11.04	3	9.92	4	10.20
22	11.05	4	9.96	5	10.20
23	11.07	5	9.97	6	10.23
24	11.08	6	9.99	7	10.25
25	11.09	7	9.93	8	10.27
26	11.09	8	9.95	9	10.29
27	11.11	9	9.96	10	10.31
28	11.12	10	9.96	11	10.33
29	11.13	1960		12	10.34
30	11.13	Jan. 7	9.62	13	10.36
Oct. 1	11.13	Mar. 3	9.51	14	10.38
2	11.13	4	9.52	15	10.39
3	11.13	5	9.53	16	10.41
4	11.14	6	9.54	17	10.42
5	11.15	7	9.54	18	10.44
6	11.15	8	9.55	19	10.45
7	11.00	9	9.55	20	10.47
8	10.96	10	9.56	21	10.49
9	10.92	Apr. 1	9.47	22	10.51
10	10.78	14	9.47	23	10.53
11	10.76	15	9.53	24	10.55
12	10.74	16	9.57	25	10.57
13	10.73	17	9.60	26	10.60
14	10.70	18	9.65	27	10.62
15	10.68	19	9.70	28	10.64
16	10.68	20	9.73	29	10.66
17	10.68	21	9.76	30	10.67
18	10.68	22	9.80	July 1	10.69

HANSON 45--Continued
Alt. about 64 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1960		1960		1960	
July 2	10.67	Aug. 17	11.05	Oct. 4	10.68
3	10.59	18	11.07	5	10.69
4	10.59	19	11.07	6	10.71
5	10.62	20	11.06	7	10.73
6	10.65	21	11.07	8	10.75
7	10.67	22	11.08	9	10.76
8	10.69	23	11.09	10	10.78
9	10.71	26	11.18	11	10.79
10	10.72	27	11.20	12	10.82
11	10.74	28	11.22	13	10.83
12	10.76	29	11.24	14	10.85
13	10.78	30	11.25	15	10.86
14	10.78	31	11.27	16	10.87
15	10.60	Sept. 1	11.28	17	10.87
16	10.62	2	11.30	18	10.89
17	10.64	3	11.32	19	10.89
18	10.66	4	11.32	20	10.89
19	10.67	5	11.34	21	10.83
20	10.70	6	11.35	22	10.83
21	10.72	7	11.37	23	10.83
22	10.72	8	11.39	24	10.82
23	10.73	9	11.40	25	10.72
24	10.75	10	11.42	26	10.67
25	10.77	11	11.42	27	10.65
26	10.80	12	11.41	28	10.64
27	10.85	13	11.21	29	10.64
28	10.89	14	11.12	30	10.66
29	10.92	15	11.13	31	10.66
30	10.92	16	11.14	Nov. 1	10.66
31	10.90	17	11.14	2	10.63
Aug. 1	10.92	18	11.15	3	10.54
2	10.93	19	11.15	4	10.51
3	10.94	20	11.11	5	10.49
4	10.95	21	10.64	6	10.50
5	10.96	22	10.50	7	10.53
6	10.97	23	10.48	8	10.55
7	11.00	24	10.50	9	10.56
8	11.04	25	10.54	10	10.56
9	11.07	26	10.56	11	10.53
10	11.07	27	10.59	12	10.54
11	11.03	28	10.60	13	10.56
12	11.03	29	10.61	14	10.57
13	11.06	30	10.61	15	10.58
14	11.07	Oct. 1	10.63	16	10.59
15	11.08	2	10.64	17	10.61
16	11.06	3	10.66	18	10.63

HANSON 55
Alt. about 70 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1958		1958	
Oct. 8	9.31	Oct. 27	9.60	Nov. 15	9.23
9	9.35	28	9.48	16	9.26
10	9.39	29	9.42	17	9.27
11	9.45	30	9.35	18	9.31
12	9.49	31	9.33	19	9.34
13	9.54	Nov. 1	9.32	20	9.37
14	9.58	2	9.35	21	9.41
15	9.61	3	9.35	22	9.44
16	9.63	4	9.28	24	9.48
17	9.66	5	9.20	25	9.50
18	9.70	6	9.15	26	9.51
19	9.72	7	9.17	27	9.53
20	9.78	8	9.19	28	9.55
21	9.80	9	9.19	29	9.50
22	9.82	10	9.19	30	9.45
23	9.82	11	9.19	Dec. 1	9.45
24	9.80	12	9.16	2	9.42
25	9.78	13	9.16	3	9.43
26	9.70	14	9.19	4	9.43

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

HANSON 55
Alt. about 70 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1959		1959	
Dec. 5	9.36	Feb. 13	9.47	June 4	9.76
6	9.11	14	9.37	5	9.77
7	9.14	15	9.24	6	9.76
8	9.10	16	9.05	7	9.72
9	9.14	17	9.10	8	9.67
10	9.18	18	9.13	9	9.67
11	9.20	19	9.10	10	9.68
12	9.24	20	9.15	11	9.69
13	9.29	21	9.24	12	9.71
14	9.31	22	9.31	13	9.71
15	9.36	23	9.36	14	9.72
16	9.40	24	9.45	15	9.72
17	9.42	25	9.50	16	9.67
18	9.45	26	9.54	17	9.62
19	9.46	27	9.58	18	9.61
20	9.48	28	9.62	19	9.60
21	9.51	Mar. 1	9.62	20	9.56
22	9.55	2	9.49	21	9.51
23	9.59	3	9.24	22	9.59
24	9.61	4	9.04	23	9.59
25	9.64	5	8.90	24	9.59
26	9.67	6	8.91	25	9.60
27	9.69	7	8.65	26	9.61
28	9.72	8	8.66	27	9.65
29	9.72	9	8.63	28	9.66
30	9.72	10	8.75	29	9.66
1959		11	8.83	30	9.71
Jan. 1	9.72	12	8.84	July 1	9.76
2	9.72	13	8.84	2	9.76
3	9.56	14	8.86	3	9.77
4	9.49	15	8.81	4	9.79
5	9.47	16	8.69	5	9.82
6	9.53	17	8.43	6	9.85
7	9.59	18	8.47	7	9.86
8	9.63	19	8.55	8	9.89
9	9.68	Apr. 13	8.61	9	9.92
10	9.72	14	8.61	10	9.94
11	9.76	15	8.61	11	9.94
12	9.80	16	8.61	12	9.84
13	9.82	17	8.62	13	9.70
14	9.84	18	8.63	14	9.61
15	9.85	19	8.65	15	9.59
16	9.85	20	8.69	16	9.34
17	9.82	21	8.94	17	9.16
18	9.82	22	8.95	18	9.09
19	9.80	23	8.97	19	9.12
20	9.84	24	8.97	20	9.16
21	9.84	29	9.03	21	9.19
22	9.73	30	9.02	22	9.21
23	9.61	May 1	9.00	23	9.24
24	9.55	2	8.99	24	9.27
25	9.62	3	9.97	25	9.34
26	9.66	11	9.06	26	9.38
27	9.70	12	9.06	27	9.47
28	9.75	13	9.07	28	9.54
29	9.77	14	9.08	29	9.60
30	9.79	15	9.09	30	9.64
Feb. 1	9.82	16	9.09	31	9.67
2	9.84	17	9.10	Aug. 1	9.73
3	9.85	18	9.40	2	9.77
4	9.85	19	9.41	3	9.81
5	9.66	20	9.41	4	9.85
6	9.61	21	9.42	5	9.87
7	9.63	22	9.43	6	9.91
8	9.72	23	9.43	7	9.95
9	9.76	24	9.43	8	10.01
10	9.76	June 1	9.75	9	10.03
11	9.47	2	9.75	10	10.05
12	9.46	3	9.75	11	10.06

HANSON 55--Continued
Alt. about 70 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1959		1959		1960	
Aug. 12	10.10	Oct. 25	10.59	Jan. 1	9.11
13	10.13	26	10.48	2	9.12
14	10.17	27	10.43	3	9.12
15	10.20	28	10.39	4	9.01
16	10.23	29	10.38	5	8.86
17	10.24	30	10.36	6	8.80
18	10.25	31	10.35	8	8.84
19	10.27	Nov. 1	10.32	9	8.92
25	10.36	2	10.30	10	8.98
26	10.38	3	10.29	11	9.01
27	10.39	4	10.29	12	9.06
28	10.41	5	10.29	13	9.09
29	10.42	6	10.29	14	9.13
30	10.42	7	10.29	15	9.17
31	10.38	8	10.28	16	9.17
Sept. 1	10.28	9	10.25	17	9.18
2	10.28	10	10.24	18	9.20
3	10.28	11	10.23	19	9.21
4	10.28	12	10.23	20	9.19
5	10.30	13	10.23	21	9.18
6	10.33	14	10.23	22	9.19
7	10.36	15	10.23	23	9.22
8	10.38	16	10.23	24	9.25
9	10.40	17	10.23	25	9.27
10	10.42	18	10.23	26	9.29
11	10.43	19	10.23	27	9.33
12	10.44	20	10.23	28	9.36
13	10.51	21	10.23	29	9.36
14	10.46	22	10.23	30	9.13
15	10.46	23	10.23	31	9.04
16	10.46	24	10.23	Feb. 1	9.00
17	10.46	25	10.23	2	9.03
18	10.46	26	10.01	3	9.08
19	10.47	27	9.87	4	9.19
20	10.48	28	9.79	5	9.19
21	10.49	29	9.72	6	9.19
22	10.50	30	9.61	7	9.00
23	10.53	Dec. 1	9.54	8	8.90
24	10.57	2	9.51	9	8.90
25	10.61	3	9.52	10	8.95
26	10.63	4	9.57	11	8.96
27	10.66	5	9.58	12	8.95
28	10.68	6	9.59	13	8.87
29	10.70	7	9.57	14	8.85
30	10.72	8	9.52	15	8.77
Oct. 1	10.73	9	9.51	16	8.69
2	10.74	10	9.53	17	8.68
3	10.76	11	9.56	18	8.72
4	10.77	12	9.56	19	8.72
5	10.79	13	9.51	20	8.42
6	10.80	14	9.35	21	8.20
7	10.77	15	9.25	22	8.20
8	10.72	16	9.16	23	8.30
9	10.70	17	9.22	24	8.38
10	10.57	18	9.25	25	8.46
11	10.53	19	9.28	26	8.46
12	10.50	20	9.32	27	8.20
13	10.50	21	9.34	28	8.03
14	10.49	22	9.37	29	8.07
15	10.49	23	9.40	Mar. 1	8.17
16	10.52	24	9.44	2	8.28
17	10.53	25	9.46	3	8.35
18	10.56	26	9.48	4	8.45
19	10.59	27	9.50	5	8.53
20	10.62	28	9.50	6	8.60
21	10.64	29	9.45	7	8.65
22	10.65	30	9.24	8	8.69
23	10.66	31	9.13	9	8.72
24	10.66			10	8.75

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

HANSON 55--Continued
Alt. about 70 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1960		1960		1960	
Apr. 1	8.42	June 15	9.76	Aug. 17	10.45
14	8.28	16	9.79	18	10.45
15	8.36	17	9.82	19	10.45
16	8.42	18	9.84	20	10.44
17	8.46	19	9.86	21	10.45
18	8.52	20	9.90	22	10.47
19	8.58	21	9.92	26	10.70
20	8.62	22	9.95	27	10.74
21	8.66	23	9.98	28	10.79
22	8.71	24	10.01	29	10.83
23	8.75	25	10.05	30	10.86
24	8.76	26	10.08	31	10.89
25	8.75	27	10.11	Sept. 1	10.92
26	8.75	28	10.14	2	10.94
27	8.78	29	10.17	3	10.97
28	8.82	30	10.18	4	10.97
29	8.86	July 1	10.21	5	10.99
30	8.89	2	10.20	6	11.02
May 1	8.91	3	10.14	7	11.04
2	8.93	4	10.13	8	11.06
3	8.96	5	10.14	9	11.08
4	9.00	6	10.17	10	11.10
5	9.03	7	10.19	11	11.10
6	9.06	8	10.20	12	11.10
7	9.08	9	10.22	13	10.97
8	9.10	10	10.24	14	10.89
		11	10.25	15	10.85
		12	10.28	16	10.83
		13	10.29	17	10.82
		14	10.29	18	10.83
		15	10.21	19	10.84
		16	10.15	20	10.83
15	9.10	17	10.14	21	10.45
16	9.15	18	10.16	22	10.12
17	9.19	19	10.18	23	10.02
18	9.22	20	10.22	24	10.01
19	9.25	21	10.24	25	10.03
20	9.28	22	10.24	26	10.05
21	9.31	23	10.25	27	10.07
22	9.34	24	10.27	28	10.08
23	9.35	25	10.29	29	10.09
24	9.35	26	10.31	30	10.09
25	9.35	27	10.31	Oct. 1	10.10
26	9.36	28	10.31	2	10.11
27	9.42	29	10.32	3	10.12
28	9.45	30	10.32	4	10.13
29	9.49	31	10.31	5	10.15
30	9.51	Aug. 1	10.33	6	10.16
31	9.51	2	10.34	7	10.18
June 1	9.53	3	10.36	8	10.20
2	9.53	4	10.36	9	10.22
3	9.51	5	10.37	10	10.23
4	9.51	6	10.39	11	10.25
5	9.50	7	10.41	12	10.26
6	9.51	8	10.41	13	10.28
7	9.54	9	10.42	14	10.30
8	9.57	10	10.43	15	10.31
9	9.60	11	10.42	16	10.32
10	9.62	12	10.41	17	10.32
11	9.64	13	10.42	18	10.33
12	9.67	14	10.43	19	10.33
13	9.71	15	10.45	20	10.33
14	9.73	16	10.46	21	10.32

KINGSTON 92
Alt. about 67 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Dec. 16	10.53	July 21	8.13	Feb. 9	5.79
23	10.13	28	8.52	16	8.40
30	9.64	Aug. 5	8.55	29	7.90
1958		11	8.60	Mar. 2	8.65
Jan. 7	9.13	19	8.91	9	8.14
14	10.42	25	8.98	16	8.10
20	7.94	Sept. 2	7.89	24	7.63
27	6.91	9	8.02	30	7.67
Feb. 3	7.10	16	8.44	Apr. 7	7.18
10	7.32	23	8.21	13	6.25
19	7.75	29	7.60	21	7.39
Mar. 3	7.12	Oct. 6	7.73	27	7.55
10	7.23	13	8.02	May 4	7.44
17	6.08	20	8.29	11	7.70
24	5.86	27	8.14	25	8.18
31	6.14	Nov. 5	7.60	June 1	8.32
Apr. 7	5.21	10	7.56	8	8.40
14	4.94	17	7.68	15	8.35
21	5.38	24	7.82	22	8.40
28	5.05	Dec. 1	7.87	29	8.29
May 5	5.27	8	7.58	July 7	8.58
12	5.25	15	7.75	13	8.47
19	5.21	22	8.00	21	6.95
26	5.91	29	8.24	27	8.14
June 2	6.30	1959		Aug. 3	8.49
10	6.60	Jan. 5	8.19	10	8.79
16	6.80	12	8.48	17	8.01
23	7.11	19	8.53	24	9.15
30	7.39	26	8.51	Sept. 2	9.40
July 14	7.86	Feb. 2	8.59	8	9.58

MARSHFIELD 30
Alt. about 100 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1958		1958	
July 16	9.41	Aug. 22	10.37	Sept. 26	11.05
17	9.44	23	10.41	27	11.05
18	9.46	24	10.49	28	11.05
19	9.51	25	10.42	29	10.96
22	9.60	26	10.42	Oct. 14	11.11
23	9.61	27	10.46	15	11.11
24	9.62	28	10.49	16	11.12
25	9.66	29	10.49	17	11.13
26	9.69	30	10.51	18	11.16
27	9.72	31	10.53	19	11.17
28	9.73	Sept. 1	10.55	20	11.18
29	9.73	2	10.60	21	11.20
30	9.68	3	10.63	22	11.20
31	9.73	4	10.65	23	11.20
Aug. 1	9.73	5	10.68	24	11.20
2	9.74	6	10.69	25	11.22
3	9.78	7	10.71	26	11.23
4	9.83	8	10.72	27	11.23
5	9.90	9	10.74	28	11.25
6	9.92	10	10.75	29	11.26
7	9.95	11	10.77	30	11.27
8	9.98	12	10.81	31	11.27
9	10.01	13	10.83	Nov. 1	11.28
10	10.02	14	10.85	2	11.28
11	10.09	15	10.89	3	11.28
12	10.12	16	10.90	4	11.24
13	10.14	17	10.90	5	11.23
14	10.17	18	10.86	6	11.23
15	10.19	19	10.90	7	11.22
16	10.21	20	10.92	8	11.22
17	10.23	21	10.94	9	11.22
18	10.26	22	10.95	10	11.17
19	10.29	23	10.99	11	11.13
20	10.32	24	11.00	12	11.14
21	10.35	25	11.01	13	11.15

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

MARSHFIELD 30--Continued
Alt. about 100 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1959		1959	
Nov. 14	11.15	Jan. 25	11.47	Apr. 8	9.90
15	11.15	26	11.51	9	9.88
16	11.18	27	11.51	10	9.88
17	11.18	28	11.51	11	9.87
18	11.18	29	11.52	12	9.86
19	11.18	30	11.53	13	9.84
20	11.18	Feb. 1	11.54	14	9.81
21	11.21	2	11.54	15	9.81
22	11.22	3	11.54	16	9.81
23	11.22	4	11.58	17	9.80
24	11.25	5	11.56	18	9.80
25	11.26	6	11.58	19	9.80
26	11.26	7	11.59	20	9.79
27	11.26	8	11.60	22	9.75
28	11.30	9	11.60	23	9.75
29	11.28	10	11.60	24	9.75
30	11.28	11	11.52	25	9.78
Dec. 1	11.28	12	11.53	26	9.79
2	11.29	13	11.53	27	9.79
3	11.30	14	11.50	May 4	9.80
4	11.30	15	11.50	5	9.80
5	11.26	16	11.42	6	9.80
8	11.19	17	11.38	7	9.80
9	11.19	18	11.35	8	9.81
10	11.19	19	11.31	9	9.83
11	11.19	20	11.30	10	9.84
12	11.19	21	11.30	16	9.88
13	11.15	22	11.28	17	9.91
14	11.15	23	11.28	18	9.94
15	11.14	24	11.25	19	9.96
16	11.14	25	11.26	20	9.98
17	11.14	26	11.26	21	10.00
18	11.14	27	11.26	22	10.01
19	11.14	28	11.27	23	10.04
20	11.14	Mar. 1	11.27	24	10.06
21	11.16	2	11.26	25	10.13
22	11.17	3	11.20	26	10.13
24	11.18	4	11.17	27	10.15
25	11.21	5	11.11	28	10.17
26	11.23	6	11.08	29	10.19
27	11.24	7	10.97	30	10.22
28	11.26	8	10.90	31	10.20
29	11.27	10	10.78	June 1	10.23
30	11.27	11	10.77	2	10.24
31	11.28	12	10.75	3	10.23
1959		13	10.68	4	10.22
Jan. 1	11.28	14	10.67	5	10.24
2	11.28	15	10.66	6	10.24
3	11.24	16	10.64	7	10.21
4	11.25	17	10.50	8	10.20
5	11.29	18	10.46	9	10.20
6	11.30	19	10.44	10	10.24
7	11.32	20	10.41	11	10.27
8	11.33	21	10.37	12	10.28
9	11.34	22	10.32	13	10.28
10	11.35	23	10.25	14	10.28
11	11.36	25	10.24	15	10.28
12	11.39	26	10.22	16	10.28
13	11.39	27	10.20	17	10.30
14	11.39	28	10.17	18	10.30
15	11.39	29	10.17	19	10.30
16	11.40	30	10.17	20	10.30
17	11.41	31	10.14	21	10.30
18	11.42	Apr. 1	10.12	22	10.30
19	11.45	2	10.11	23	10.31
20	11.45	3	10.06	24	10.31
21	11.45	4	10.01	25	10.31
22	11.44	5	9.97	26	10.31
23	11.66	6	9.94	27	10.31
24	11.47	7	9.91	28	10.32

MARSHFIELD 30--Continued
Alt. about 100 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1959		1959		1960	
June 29	10.32	Sept. 8	11.05	Jan. 6	11.09
July 1	10.32	21	11.30	7	11.05
2	10.33	22	11.30	8	11.02
3	10.32	23	11.32	9	11.01
4	10.33	24	11.35	10	10.98
5	10.35	25	11.38	11	10.98
6	10.38	26	11.40	12	10.95
7	10.41	27	11.32	13	10.94
8	10.41	28	11.48	14	10.92
9	10.41	29	11.48	15	10.89
10	10.42	30	11.50	16	10.88
11	10.42	Oct. 1	11.52	17	10.86
12	10.34	2	11.55	18	10.86
13	10.35	3	11.58	19	10.85
14	10.35	4	11.61	20	10.85
15	10.35	5	11.63	21	10.81
16	10.23	6	11.64	22	10.80
17	10.19	7	11.64	23	10.80
18	10.15	8	11.65	24	10.80
19	10.13	9	11.66	25	10.80
20	10.11	10	11.65	26	10.80
21	10.06	11	11.66	27	10.80
22	10.06	12	11.69	28	10.80
23	10.06	13	11.71	29	10.80
24	10.06	14	11.76	30	10.78
25	10.06	15	11.76	31	10.78
26	10.06	16	11.78	Feb. 1	10.78
27	10.08	17	11.80	2	10.78
28	10.10	18	11.82	3	10.77
29	10.12	19	11.83	4	10.75
30	10.13	20	11.85	5	10.78
31	10.14	21	11.88	6	10.78
Aug. 1	10.14	22	11.89	7	10.74
2	10.20	23	11.90	8	10.74
3	10.21	24	11.90	9	10.73
4	10.22	25	11.90	10	10.73
5	10.22	26	11.86	11	10.72
6	10.24	27	11.87	12	10.69
7	10.26	28	11.89	13	10.69
8	10.29	29	11.91	14	10.68
9	10.31	30	11.93	15	10.60
10	10.36	31	11.93	16	10.59
11	10.37	Nov. 1	11.93	17	10.57
12	10.41	2	11.95	18	10.55
13	10.43	3	11.98	19	10.50
14	10.47	4	11.98	20	10.38
15	10.49	5	12.00	21	10.34
16	10.52	6	12.01	22	10.31
17	10.54	7	12.02	23	10.27
18	10.55	8	12.02	24	10.24
19	10.57	9	12.04	25	10.21
20	10.60	10	12.07	26	10.19
21	10.62	11	12.07	27	10.15
22	10.65	12	12.11	Mar. 3	9.82
23	10.69	Dec. 10	11.72	4	9.81
24	10.75	19	11.45	5	9.79
25	10.75	20	11.45	6	9.79
26	10.79	23	11.40	7	9.79
27	10.82	24	11.40	8	9.78
28	10.85	25	11.39	9	9.77
29	10.86	26	11.38	10	9.76
30	10.86	27	11.37	11	9.75
31	10.85	28	11.35	12	9.75
Sept. 1	10.87	29	11.30	13	9.75
2	10.89	30	11.27	14	9.75
3	10.92	1960		15	9.76
4	10.95	Jan. 2	11.21	16	9.77
5	10.97	3	11.21	17	9.78
6	11.00	4	11.15	18	9.78
7	11.02	5	11.12	19	9.77

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

MARSHFIELD 30--Continued
Alt. about 100 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1960		1960		1960	
Mar. 20	9.75	May 29	9.89	Aug. 7	11.53
21	9.75	30	9.92	8	11.55
22	9.75	31	9.94	9	11.58
23	9.76	June 1	9.95	10	11.61
24	9.79	2	9.97	11	11.62
25	9.79	3	9.99	12	11.63
26	9.84	4	10.02	13	11.65
27	9.85	5	10.04	14	11.66
28	9.86	6	10.06	15	11.69
29	9.87	7	10.10	16	11.71
30	9.88	8	10.13	17	11.73
31	9.81	9	10.15	18	11.75
Apr. 1	9.75	10	10.18	19	11.76
2	9.71	11	10.20	20	11.78
3	9.71	12	10.23	21	11.80
4	9.67	13	10.26	22	11.81
5	9.60	14	10.29	23	11.84
6	9.49	15	10.31	26	11.96
7	9.39	16	10.33	27	11.96
8	9.28	17	10.35	28	11.98
9	9.20	18	10.38	29	12.00
10	9.15	19	10.40	30	12.03
11	9.12	20	10.43	31	12.05
12	9.10	21	10.46	Sept. 1	12.06
13	9.04	22	10.50	2	12.08
14	9.04	23	10.52	3	12.11
15	9.02	24	10.53	4	12.11
16	8.99	25	10.56	5	12.15
17	8.98	26	10.59	6	12.18
18	8.97	27	10.63	7	12.20
19	8.97	28	10.66	8	12.23
20	8.98	29	10.68	9	12.26
21	8.99	30	10.71	10	12.29
22	8.99	July 1	10.74	11	12.31
23	9.01	2	10.74	12	12.33
24	9.02	3	10.75	13	12.29
25	9.02	4	10.78	14	12.32
26	9.03	5	10.81	15	12.34
27	9.07	6	10.84	16	12.36
28	9.12	7	10.86	17	12.37
29	9.12	8	10.89	18	12.38
30	9.16	9	10.91	19	12.40
May 1	9.18	10	10.94	20	12.40
2	9.19	11	10.97	21	12.35
3	9.22	12	11.01	22	12.20
4	9.26	13	11.04	23	12.18
5	9.27	14	11.06	24	12.20
6	9.30	15	11.06	25	12.22
7	9.34	16	11.07	26	12.24
8	9.35	17	11.09	27	12.26
9	9.36	18	11.11	28	12.28
10	9.38	19	11.13	29	12.30
11	9.41	20	11.15	30	12.32
12	9.44	21	11.17	Oct. 1	12.35
13	9.46	22	11.18	2	12.37
14	9.48	23	11.18	3	12.39
15	9.50	24	11.20	4	12.41
16	9.54	25	11.24	5	12.43
17	9.57	26	11.26	6	12.44
18	9.59	27	11.28	7	12.46
19	9.63	28	11.31	8	12.48
20	9.65	29	11.33	9	12.49
21	9.67	30	11.34	10	12.51
22	9.69	31	11.36	11	12.52
23	9.71	Aug. 1	11.39	12	12.53
24	9.73	2	11.41	13	12.55
25	9.73	3	11.44	14	12.56
26	9.76	4	11.46	15	12.58
27	9.84	5	11.48	16	12.59
28	9.87	6	11.50	17	12.60

MARSHFIELD 30--Continued
Alt. about 100 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1960		1960		1960	
Oct. 18	12.62	Oct. 26	12.70	Nov. 2	12.78
19	12.64	27	12.71	3	12.74
20	12.64	28	12.73	4	12.77
21	12.64	29	12.74	5	12.78
22	12.65	30	12.76	6	12.79
23	12.67	31	12.77	7	12.80
24	12.67	Nov. 1	12.78	21	12.93
25	12.68				

PEMBROKE 132
Alt. about 36 ft.

Date	Water level	Date	Water level	Date	Water level
1958		1958		1959	
May 19	3.24	Nov. 5	2.51	Apr. 13	3.67
26	2.36	17	3.16	21	2.66
June 2	3.53	24	3.47	27	3.08
10	3.64	Dec. 1	2.99	May 4	3.05
16	4.24	8	2.88	11	3.87
23	4.34	15	3.41	18	4.24
30	5.31	22	3.78	25	4.77
July 7	5.80	29	4.24	June 1	5.15
14	6.08	1959		8	4.19
21	6.64	Jan. 5	3.22	15	3.45
28	6.66	19	3.95	22	3.04
Aug. 5	6.11	26	3.64	29	3.92
11	6.12	Feb. 2	4.26	July 7	4.76
19	6.55	9	3.97	13	3.47
25	7.03	16	3.02	21	3.28
Sept. 2	5.24	24	3.84	27	4.57
9	6.15	Mar. 2	4.44	Aug. 3	5.73
23	5.14	9	2.81	10	6.14
29	3.03	16	1.85	17	6.79
Oct. 6	3.68	24	2.54	24	7.48
13	4.56	30	2.39	Sept. 2	7.67
20	5.08	Apr. 7	2.53	8	7.89
27	2.77				

PEMBROKE 175
Alt. about 27 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1957		1957		1957	
Oct. 22	11.27	Nov. 20	7.79	Dec. 19	6.04
23	11.27	21	7.72	20	6.09
24	11.26	22	7.67	21	6.10
25	11.24	23	7.65	22	5.58
26	11.22	24	7.72	23	5.68
27	11.19	25	7.80	24	5.82
28	11.15	26	7.96	25	5.96
29	11.11	27	8.04	26	5.97
30	11.06	28	8.04	27	5.15
31	11.03	29	8.12	28	5.28
Nov. 1	11.00	30	8.13	29	5.30
2	10.74	Dec. 1	7.92	30	5.07
3	10.28	2	7.73	31	5.19
4	9.29	3	7.68	1958	
5	8.54	4	7.68	Jan. 1	5.19
6	8.14	5	7.92	2	4.65
7	8.15	6	7.95	3	4.85
8	8.17	7	7.98	4	5.05
9	8.11	8	8.13	5	5.36
10	7.67	9	8.13	6	5.39
11	7.62	10	7.20	7	5.46
12	7.70	11	5.82	8	4.83
13	7.78	12	5.58	9	3.95
14	7.84	13	5.47	10	4.09
15	7.84	14	5.58	11	4.25
16	7.77	15	5.69	12	4.41
17	7.79	16	5.73	13	4.56
18	7.85	17	5.87	14	4.69
19	7.85	18	5.97	15	4.47

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

PEMBROKE 175--Continued
Alt. about 27 ft.
(Daily low water levels from recorder graph)

Date	Water level	Date	Water level	Date	Water level
1958		1958		1958	
Jan. 16	3.65	Mar. 30	4.06	June 8	5.41
17	3.79	31	4.13	9	5.46
18	4.95	Apr. 1	4.11	10	5.40
19	4.07	2	3.38	11	5.50
20	4.19	3	3.51	12	5.58
21	4.27	4	3.64	13	5.66
22	4.26	5	3.74	14	5.67
23	3.69	6	3.78	15	5.79
24	3.86	7	3.34	16	5.95
25	3.85	8	3.54	17	6.10
26	3.48	9	3.67	18	6.24
27	3.54	10	3.78	19	6.27
28	3.31	11	3.80	20	6.07
29	3.42	12	3.18	21	5.99
30	3.52	13	3.50	22	5.99
31	3.65	14	3.63	23	6.09
Feb. 1	3.72	15	3.72	24	6.25
2	3.85	16	3.83	25	6.38
3	4.05	17	3.95	26	6.49
4	4.19	18	4.03	27	6.64
5	4.33	19	4.16	28	6.78
6	4.46	20	4.24	29	6.91
7	4.52	21	4.37	30	7.03
8	4.14	22	4.37	July 1	7.16
9	4.10	23	3.57	2	7.30
10	4.32	24	3.69	3	7.43
11	4.53	25	3.85	4	7.50
12	4.70	26	4.01	5	7.58
13	4.80	27	4.11	6	7.61
14	5.00	28	4.12	7	7.65
15	5.14	29	3.51	8	7.70
16	5.23	30	3.59	9	7.77
17	5.37	May 1	3.73	10	7.82
18	5.46	2	3.86	11	7.89
19	5.58	3	3.92	12	7.94
20	5.68	4	3.74	13	7.97
21	5.71	5	3.74	14	7.89
22	5.78	6	3.78	15	7.82
23	5.85	7	3.52	16	7.86
24	5.91	8	3.47	17	8.01
25	5.90	9	3.64	18	8.07
26	5.51	10	3.76	19	8.14
27	5.42	11	3.85	20	8.29
28	5.35	12	4.01	21	8.41
Mar. 3	4.21	13	4.14	22	8.49
4	4.25	14	4.27	23	8.51
5	4.29	15	4.36	24	8.25
6	4.37	16	4.38	25	8.11
7	4.47	17	4.44	26	8.12
8	4.57	18	4.58	27	8.16
10	4.65	19	4.71	28	8.16
11	4.75	20	4.72	29	8.16
12	4.86	21	4.83	30	7.14
13	4.97	22	4.97	Aug. 1	6.83
14	4.99	23	4.99	2	6.54
15	3.53	24	5.05	3	6.12
16	3.52	25	5.12	4	6.28
17	3.56	26	4.75	5	6.46
18	3.56	27	4.49	6	6.62
19	3.60	28	4.50	7	6.79
20	3.40	29	4.22	8	6.99
21	3.48	30	4.41	9	7.18
22	3.38	31	4.64	10	7.35
23	3.49	June 1	4.94	11	7.55
24	3.58	2	4.96	12	7.72
25	3.66	3	4.50	13	7.75
26	3.71	4	4.68	14	7.81
27	3.78	5	4.85	15	7.88
28	3.89	6	5.07	16	7.88
29	3.99	7	5.25	17	7.75

PEMBROKE 175--Continued
Alt. about 27 ft.

Date	Water level	Date	Water level	Date	Water level
1958		1958		1959	
Aug. 18	7.74	Nov. 1	4.90	Jan. 11	7.07
19	7.86	2	4.97	12	7.20
20	7.96	3	4.96	13	7.36
31	8.07	4	3.98	14	7.46
22	8.22	5	4.09	15	7.53
23	8.39	6	4.19	16	7.55
24	8.46	7	4.31	17	7.17
25	8.45	8	4.42	18	6.82
26	7.70	9	4.43	19	6.79
27	7.46	10	3.99	20	6.88
28	6.50	11	4.20	21	6.88
29	6.47	12	4.33	22	6.47
30	5.71	13	4.45	23	6.18
31	5.74	14	4.55	24	6.12
Sept. 1	5.90	15	4.67	25	6.18
2	6.13	16	4.76	26	6.19
3	6.31	17	4.82	27	6.12
4	6.47	18	4.89	28	6.23
5	6.66	19	4.98	29	6.14
6	6.79	20	5.11	30	6.12
7	6.89	21	5.26	Feb. 1	6.09
8	6.92	22	5.35	2	6.07
9	7.03	24	5.47	3	6.80
10	7.06	25	5.56	4	6.81
11	7.07	26	5.57	5	6.31
12	7.16	27	5.61	6	6.43
13	7.28	28	5.64	7	6.47
14	7.43	29	5.26	8	6.62
15	7.55	30	4.86	9	6.70
16	7.70	Dec. 1	4.92	10	6.69
17	7.70	2	5.07	11	5.90
23	5.66	3	5.18	12	5.98
24	5.79	4	5.18	13	6.00
25	5.93	5	4.31	14	5.76
26	6.09	6	4.12	15	5.65
27	6.09	7	4.26	16	5.49
28	5.21	8	4.40	17	5.63
29	4.36	9	4.52	18	5.66
30	4.51	10	4.66	19	5.56
Oct. 1	4.56	11	4.78	20	5.75
2	4.23	12	4.92	21	5.96
3	4.37	13	5.07	22	6.14
4	4.54	14	5.18	23	6.29
5	4.74	15	5.20	24	6.23
6	4.83	16	5.32	25	6.14
7	4.97	17	5.39	26	6.05
8	5.10	18	5.49	27	5.96
9	5.23	19	5.54	28	5.93
10	5.35	20	5.52	Mar. 1	5.97
11	5.51	21	5.42	2	6.44
12	5.68	22	5.55	3	5.89
13	5.80	24	5.85	4	5.58
14	5.89	25	5.97	5	5.39
15	6.01	26	6.10	6	5.38
16	6.12	27	6.24	7	4.52
17	6.22	28	6.37	8	4.57
18	6.37	29	6.43	9	4.69
19	6.47	30	6.45	10	4.79
20	6.63	31	6.48	11	4.83
		1959		12	4.83
21	6.74	Jan. 1	6.50	13	4.40
22	6.82	2	6.50	14	4.48
23	6.85	3	5.86	15	4.42
24	6.50	4	5.87	16	4.06
25	6.35	5	5.98	17	4.01
26	5.96	6	6.17	18	4.15
27	5.15	7	6.41	19	4.20
28	4.90	8	6.57	20	4.25
29	4.59	9	6.72	21	4.26
30	4.60	10	6.88	22	3.91

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

PEMBROKE 175--Continued
Alt. about 27 ft.

Date	Water level	Date	Water level	Date	Water level
1959		1959		1959	
Mar. 23	4.04	May 26	7.25	July 28	6.25
24	4.15	27	7.39	29	6.45
25	4.23	28	7.48	30	6.64
26	4.31	29	7.42	31	6.80
27	4.32	30	7.47	Aug. 1	6.98
28	4.23	31	7.45	2	7.17
29	4.26	June 1	7.49	3	7.38
30	4.13	2	7.57	4	7.57
31	3.91	3	7.23	5	7.74
Apr. 1	3.92	4	6.25	6	7.88
2	3.97	5	6.32	7	8.03
3	3.64	6	6.34	8	8.20
4	3.85	7	6.15	9	8.31
5	3.99	8	6.25	10	8.32
6	4.02	9	6.44	11	8.31
7	4.12	10	6.61	12	8.41
8	4.23	11	6.82	13	8.54
9	4.25	12	6.98	14	8.69
10	4.27	13	7.07	15	8.83
11	4.03	14	6.88	16	8.97
12	4.10	15	6.39	17	9.13
13	4.25	16	5.93	18	9.26
14	4.36	17	5.98	19	9.39
15	4.51	18	5.98	20	9.50
16	4.65	19	5.59	21	9.60
17	4.82	20	5.19	22	9.73
18	4.94	21	5.37	23	9.84
19	5.05	22	5.47	24	9.91
20	5.07	23	5.12	25	9.97
21	4.61	24	5.32	26	10.04
22	4.77	25	5.49	27	10.11
23	4.85	26	5.55	28	10.18
24	5.12	27	5.65	29	10.18
25	5.28	28	5.68	30	9.94
26	5.37	29	5.65	31	9.65
27	5.31	30	5.67	Sept. 1	9.41
28	4.64	July 1	6.01	2	8.99
29	4.64	2	6.03	3	8.80
30	4.42	3	5.62	4	8.80
May 1	4.46	4	5.83	5	8.88
2	4.31	5	6.04	6	9.00
3	4.51	6	6.21	7	9.13
4	4.75	7	6.41	8	9.19
5	4.95	8	6.59	9	9.32
6	5.13	9	6.78	10	9.40
7	5.31	10	6.97	11	9.51
8	5.55	11	6.99	12	9.60
9	5.66	12	5.44	13	9.69
10	5.82	13	5.41	14	9.77
11	5.97	14	5.41	15	9.85
12	6.11	15	5.39	16	9.92
13	6.22	16	4.23	17	9.99
14	6.12	17	4.41	18	10.05
15	6.10	18	4.61	19	10.09
16	6.25	19	4.79	20	10.13
17	6.39	20	4.57	21	10.15
18	6.50	21	4.93	22	10.19
19	6.60	22	5.11	23	10.24
20	6.67	23	5.28	24	10.28
21	6.67	24	5.46	25	10.34
22	6.77	25	5.66	26	10.39
23	6.93	26	5.84	27	10.43
24	7.02	27	6.05	28	10.47
25	7.12			Oct. 1	10.57

PEMBROKE 202
Alt. about 65 ft.

Date	Water level	Date	Water level	Date	Water level
1958		1958		1959	
May 26	6.97	Nov. 5	9.59	Apr. 7	7.76
June 2	7.31	10	9.44	13	7.87
10	7.65	17	9.50	21	8.14
16	7.86	24	9.66	27	8.31
23	8.12	Dec. 1	9.58	May 4	8.05
30	8.47	8	9.11	11	8.36
July 7	8.73	15	9.29	19	8.63
14	8.97	22	9.66	25	8.88
21	9.22	29	9.75	June 1	8.98
28	9.29	1959		8	8.89
Aug. 5	9.40	Jan. 5	9.50	15	9.05
11	9.70	12	9.91	22	8.88
19	9.98	19	10.01	29	9.01
25	10.10	26	9.86	July 7	9.27
Sept. 2	9.99	Feb. 2	10.10	13	9.20
9	10.38	9	10.07	21	8.79
15	10.61	16	9.99	27	9.04
23	10.41	24	9.97	Aug. 3	9.41
29	10.12	Mar. 2	9.14	10	9.64
Oct. 6	9.98	9	8.70	17	9.90
13	10.20	16	8.14	24	10.24
20	10.58	24	8.30	Sept. 2	10.33
27	10.43	30	8.28	8	10.54

PEMBROKE 217
Alt. about 110 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Dec. 2	9.82	July 7	10.29	Feb. 2	9.32
9	9.55	14	10.53	9	9.30
17	8.51	21	10.72	16	9.79
23	8.25	28	10.36	Mar. 2	9.01
30	8.30	Aug. 5	10.35	9	8.51
1958		11	10.55	16	8.34
Jan. 7	8.18	19	10.72	24	7.98
14	7.70	25	9.18	30	8.15
20	7.59	Sept. 2	9.36	Apr. 7	7.29
27	6.29	9	9.82	13	7.70
Feb. 3	6.94	15	10.13	21	8.15
10	7.68	23	9.47	27	8.49
19	8.34	29	9.10	May 4	8.15
24	8.68	Oct. 6	8.71	11	8.66
Mar. 3	7.75	13	10.31	19	8.00
10	7.93	20	9.67	25	9.70
17	6.60	27	9.40	June 1	9.68
24	5.14	Nov. 5	8.09	8	9.64
31	7.22	10	8.24	15	9.78
Apr. 7	5.89	17	8.61	22	9.28
14	5.83	24	9.05	29	9.24
21	7.22	Dec. 1	9.02	July 7	9.74
28	6.95	8	8.33	13	9.68
May 5	7.14	15	8.84	21	8.41
12	7.11	22	9.26	27	8.52
19	7.97	29	9.54	Aug. 3	9.45
26	8.33	1959		10	9.94
June 2	8.58	Jan. 5	9.24	17	10.46
10	8.99	12	9.50	24	11.22
16	9.31	19	9.35	Sept. 2	11.47
23	9.57	26	9.15	8	11.73
30	9.95				

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

PEMBROKE 218
Alt. about 73 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Dec. 2	11.20	Sept. 9	6.21	June 8	4.18
9	10.87	15	6.53	15	4.40
17	8.36	23	6.28	22	3.94
23	8.16	29	5.80	29	4.20
30	6.27	Oct. 6	5.26	July 7	4.72
1958		13	5.68	13	4.75
Jan. 7	5.71	20	6.00	21	4.16
14	4.50	27	5.98	27	4.67
20	3.10	Nov. 5	4.60	Aug. 3	5.41
27	1.40	10	4.20	10	5.98
Feb. 3	1.82	17	4.41	17	6.52
10	2.15	24	4.74	24	7.67
19	3.05	Dec. 1	4.71	Sept. 2	8.27
24	3.37	8	4.10	8	8.52
Mar. 3	1.37	15	4.49	Oct. 1	9.77
10	1.83	22	4.88	14	9.97
17	0.80	29	5.23	27	9.59
24	0.60	1959		Nov. 12	8.54
31	1.48	Jan. 5	5.33	28	6.13
Apr. 3	0.44	12	5.67	Dec. 10	5.32
14	0.61	19	5.93	23	4.14
21	1.50	26	5.76	1960	
28	0.83	Feb. 2	6.05	Jan. 8	2.86
May 5	1.04	9	5.96	26	3.65
12	1.27	16	4.39	Feb. 4	3.45
19	1.97	24	4.74	17	2.26
26	1.68	Mar. 2	4.44	Mar. 3	1.86
June 2	2.44	9	2.97	16	2.63
10	2.63	16	2.28	Apr. 1	1.24
16	3.19	24	2.01	14	1.68
23	4.55	30	1.79	28	2.30
30	4.21	Apr. 7	1.57	May 11	3.10
July 7	4.98	13	1.77	27	2.87
14	5.42	21	2.05	June 8	4.68
21	5.84	27	2.58	24	5.95
28	5.69	May 4	2.28	July 22	8.46
Aug. 5	5.68	11	3.00	Aug. 26	10.32
11	5.83	18	3.45	Sept. 24	10.59
19	6.28	25	4.05	Oct. 21	9.74
25	6.62	June 1	4.44	Nov. 21	8.16
Sept. 2	5.90				

PEMBROKE 219
Alt. about 97 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1958	
Sept. 30	18.28	Apr. 21	7.97	Oct. 13	12.62
Oct. 9	18.54	28	7.79	20	12.96
Nov. 4	18.19	May 5	8.03	27	13.07
Dec. 2	18.18	12	7.85	Nov. 5	11.95
9	18.34	19	9.12	10	11.10
17	17.79	26	9.96	17	11.11
23	16.89	June 2	10.23	24	11.37
30	16.39	10	10.79	Dec. 1	11.51
1958		23	11.64	8	10.70
Jan. 7	14.99	30	12.07	15	10.77
14	14.98	July 7	12.52	22	11.30
20	11.52	14	12.98	29	11.66
27	9.09	21	13.39	1959	
Feb. 3	8.41	28	13.78	Jan. 5	11.50
10	9.20	Aug. 5	13.77	12	11.90
19	10.04	11	14.97	19	12.13
24	10.55	19	14.24	26	12.00
Mar. 3	9.39	25	14.41	Feb. 2	12.17
10	9.39	Sept. 2	14.02	9	12.21
17	7.48	9	13.89	16	11.55
24	6.67	15	14.13	24	11.54
31	7.79	20	13.94	Mar. 2	11.75
Apr. 7	6.46	29	13.60	9	10.79
10	6.35	Oct. 6	12.55	16	10.47

PEMBROKE 219--Continued
Alt. about 73 ft.

Date	Water level	Date	Water level	Date	Water level
1959		1959		1959	
Mar. 24	9.67	May 25	11.70	July 21	11.29
30	10.81	June 1	11.99	27	11.66
Apr. 7	8.63	8	12.10	Aug. 3	11.53
13	8.96	15	12.31	10	11.32
21	9.66	22	11.98	17	13.33
27	10.10	29	11.87	24	13.77
May 4	9.70	July 7	12.19	Sept. 2	14.31
11	10.35	13	12.29	8	13.79
19	11.24				

PEMBROKE 239
Alt. about 32 ft.

Date	Water level	Date	Water level	Date	Water level
1958		1958		1959	
May 26	5.91	Nov. 5	6.90	Apr. 7	4.47
June 2	6.12	10	6.90	13	4.83
10	6.67	17	6.31	21	5.42
16	7.06	24	6.69	27	5.99
23	7.34	Dec. 1	6.90	May 4	5.60
30	7.66	8	5.97	11	6.38
July 7	8.05	15	6.46	18	6.93
14	8.29	22	6.95	25	7.40
21	8.59	29	7.30	June 1	7.81
28	8.81	1959		8	7.93
Aug. 5	8.54	Jan. 5	7.21	15	8.13
11	8.64	12	7.55	22	7.68
19	8.93	19	7.75	29	7.63
25	8.38	26	7.57	July 7	7.91
Sept. 2	8.23	Feb. 2	7.77	13	7.81
9	8.40	9	7.75	21	6.97
15	8.30	16	7.17	27	7.42
23	8.10	24	6.89	Aug. 3	8.03
29	7.35	Mar. 2	7.22	10	8.47
Oct. 6	7.03	9	6.19	17	8.79
13	7.53	16	5.60	24	9.18
20	7.89	24	4.60	Sept. 2	9.68
27	7.91	30	4.95	8	9.87

WEST BRIDGEWATER 75
Alt. about 120 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Nov. 4	16.33	June 2	12.39	Jan. 5	12.70
Dec. 2	15.96	10	12.37	12	14.02
9	15.89	16	12.67	19	13.90
17	15.34	23	12.75	26	13.78
23	14.78	30	12.93	Feb. 2	13.98
30	14.55	July 7	13.07	9	13.76
1958		14	13.01	16	13.38
Jan. 7	14.23	21	13.12	Mar. 2	13.35
14	14.00	28	13.22	9	13.11
20	13.48	Aug. 5	13.17	16	12.98
27	13.67	11	13.36	24	12.97
Feb. 3	13.20	19	13.50	30	13.07
10	13.19	25	13.53	Apr. 7	12.91
19	13.34	Sept. 2	13.48	13	12.97
24	13.40	9	13.51	21	13.10
Mar. 3	13.10	15	13.65	27	13.17
10	12.80	23	13.44	May 4	13.10
17	12.63	Oct. 13	13.41	11	12.55
24	12.47	20	13.44	19	13.34
31	12.46	27	13.21	25	13.44
Apr. 7	12.25	Nov. 5	13.10	June 1	13.58
14	12.07	10	13.03	8	13.54
21	12.24	17	12.82	15	13.44
28	12.20	24	12.86	22	13.51
May 5	12.19	Dec. 1	12.80	29	13.51
12	11.94	8	12.66	July 7	13.74
19	12.14	22	12.82	21	13.75
26	12.25	29	12.96	27	13.62

Table 5.--Water levels in observation wells in the Brockton-Pembroke area, Massachusetts--Continued

WEST BRIDGEWATER 75--Continued
Alt. about 120 ft.

Date	Water level	Date	Water level	Date	Water level
1959		1959		1959	
Aug. 3	13.88	Aug. 17	14.31	Sept. 2	14.45
10	14.06	24	14.46	8	14.46

WHITMAN 3
Alt. about 85 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1958	
Apr. 18	2.02	May 5	1.98	Dec. 15	2.87
29	2.58	12	1.95	22	3.10
May 15	2.84	19	2.15	29	3.33
31	3.05	26	2.19	1959	
June 17	3.68	June 2	2.47	Jan. 5	3.13
July 1	4.07	10	2.69	Mar. 16	2.11
16	4.51	16	2.83	24	2.17
30	4.72	23	2.98	30	2.26
Aug. 16	5.09	30	3.20	Apr. 7	2.05
Oct. 9	4.64	July 7	3.35	13	2.17
Nov. 4	4.29	14	3.47	21	2.35
Dec. 2	4.28	21	3.63	27	2.51
9	4.24	28	3.75	May 4	2.36
17	3.44	Aug. 5	3.30	11	2.62
23	2.50	11	3.77	18	2.81
30	3.00	20	3.84	25	2.85
1958		25	4.41	June 1	3.01
Jan. 7	2.91	Sept. 2	3.55	8	2.75
14	2.76	9	3.20	15	2.39
27	1.99	16	3.79	22	2.63
Feb. 3	2.12	23	3.25	July 7	2.88
10	2.32	29	2.73	13	2.59
19	2.19	Oct. 6	2.87	21	2.24
Mar. 3	2.22	14	3.17	27	2.50
10	2.32	20	3.33	Aug. 3	2.78
17	1.97	27	2.60	10	3.01
24	1.92	Nov. 5	2.62	17	3.30
31	2.04	10	2.61	24	3.49
Apr. 7	1.90	17	2.79	Sept. 2	3.15
14	1.90	24	2.96	8	3.50
21	2.00	Dec. 1	2.89		
28	2.03	8	2.64		

WHITMAN 4
Alt. about 85 ft.

Date	Water level	Date	Water level	Date	Water level
1957		1958		1959	
Apr. 18	6.08	May 12	5.48	Jan. 5	7.51
29	6.56	19	5.93	12	7.73
May 15	7.11	26	6.20	19	7.77
31	7.53	June 2	6.50	26	7.79
June 17	8.09	10	6.77	Feb. 2	7.85
July 1	8.57	16	6.97	9	7.91
16	8.96	23	7.17	16	7.46
30	9.27	30	7.51	Mar. 2	7.48
Aug. 16	9.52	July 7	7.72	9	7.04
Oct. 9	10.10	14	7.98	16	6.75
Nov. 4	9.86	21	8.09	24	6.49
Dec. 2	9.40	28	8.29	30	6.47
9	9.31	Aug. 5	8.22	Apr. 7	6.22
17	8.60	11	8.33	13	6.15
23	8.48	20	8.45	21	6.44
30	8.11	25	6.39	27	6.61
1958		Sept. 2	8.33	May 4	6.50
Jan. 14	7.29	9	8.36	11	6.76
20	6.87	16	8.42	18	6.94
27	6.29	23	8.01	25	7.14
Feb. 3	6.15	29	7.85	June 1	7.34
10	6.35	Oct. 6	7.54	8	7.25
19	6.77	14	7.74	15	7.18
24	6.93	20	6.83	22	7.00
Mar. 3	6.36	27	11.64	July 2	7.50
10	6.36	Nov. 5	7.16	13	6.71
17	5.96	10	7.09	21	6.72
24	5.51	17	7.07	27	6.75
31	5.70	24	7.24	Aug. 3	7.17
Apr. 7	5.27	Dec. 1	7.24	17	7.64
14	5.08	8	7.81	24	7.97
21	5.61	15	7.03	Sept. 2	7.98
28	5.66	22	7.35	8	8.09
May 5	5.69	29	7.54		

Table 6.--Water levels and temperatures of selected ponds in the Brockton-Pembroke area, Massachusetts

(All water levels are given in feet above mean sea level; water temperatures are in degrees fahrenheit, and the readings were made at about 3 inches below the surface of the pond.)

CLEVELAND POND

Date	Water level	Temp.	Date	Water level	Temp.
1958			1958		
Mar. 3	142.68	34	Nov. 5	142.31	40
10	142.13	--	10	142.34	45
17	142.54	37	17	142.09	47
24	142.63	--	24	142.60	43
31	142.20	45	Dec. 8	142.43	36
Apr. 7	142.27	45	1959		
14	142.73	47	Feb. 15	142.56	--
21	142.00	50	Mar. 2	142.11	--
28	142.14	--	9	142.72	--
May 5	142.25	57	16	142.41	37
12	142.36	59	24	142.61	39
19	141.87	63	30	142.23	40
26	141.85	63	Apr. 7	142.56	46
June 2	141.77	67	13	142.30	49
10	141.66	--	21	142.07	--
16	141.73	--	27	142.14	56
23	141.68	67	May 4	142.48	59
30	141.61	76	11	142.04	65
July 7	141.58	74	18	142.01	66
14	141.53	76	25	141.92	66
21	141.48	73	June 1	141.80	72
28	141.54	71	8	142.08	70
Aug. 5	141.72	76	15	142.35	64
11	141.57	78	22	142.45	67
20	141.52	72	29	142.15	68
25	141.60	75	July 7	141.98	74
Sept. 2	141.70	73	13	142.25	75
9	141.58	--	21	142.37	77
16	141.49	68	27	142.16	75
23	141.70	71	Aug. 3	141.91	75
29	141.86	59	10	141.81	72
Oct. 6	141.92	57	17	141.67	79
13	141.73	53	24	141.57	73
20	141.87	54	Sept. 2	141.69	80
27	142.06	50	8	141.62	76

MONPONSETT POND

Date	Water level	Temp.	Date	Water level	Temp.
1958			1958		
Feb. 12	51.67	--	Sept. 2	51.33	72
19	51.53	35	9	51.05	72
24	51.50	38	15	50.90	68
Mar. 3	51.53	41	23	51.03	--
10	51.55	--	29	51.16	66
17	51.80	40	Oct. 6	51.25	55
24	51.86	42	13	51.02	53
31	51.63	44	20	51.00	55
Apr. 7	52.05	45	27	51.03	52
14	52.44	50	Nov. 5	51.20	42
21	51.77	61	10	51.22	--
28	51.79	55	17	51.20	48
May 5	51.95	57	24	51.21	--
12	52.06	61	Dec. 1	51.10	36
19	51.68	65	8	51.17	33
26	51.66	64	15	51.02	--
June 2	51.52	67	22	50.88	--
10	51.36	--	29	50.75	35
16	51.31	--	1959		
23	51.11	69	Jan. 5	50.85	--
30	51.46	--	19	50.65	39
July 7	50.78	71	26	50.70	37
14	50.72	77	Feb. 2	50.65	36
21	50.61	81	9	50.64	34
28	50.61	79	16	50.98	36
Aug. 5	51.00	81	24	50.97	--
11	50.92	79	Mar. 2	50.97	35
20	50.77	78	9	51.36	37
25	50.75	75	16	52.17	42

MONPONSETT POND--Continued

Date	Water level	Temp.	Date	Water level	Temp.
1959			1959		
Mar. 24	52.31	44	June 22	51.09	67
30	51.81	41	29	51.10	70
Apr. 7	52.17	46	July 7	51.95	78
13	51.69	51	13	51.11	76
21	51.47	59	21	51.45	80
27	51.34	55	27	51.31	81
May 4	51.29	59	Aug. 3	51.05	78
11	51.05	65	10	50.81	73
18	51.58	68	17	50.56	82
25	50.91	68	24	50.41	75
June 1	50.83	73	Sept. 2	50.45	80
8	50.91	74	8	50.35	80
15	51.02	--			

OLDHAM POND

Date	Water level	Temp.	Date	Water level	Temp.
1957			1958		
Apr. 17	57.11	48	Sept. 2	56.62	76
29	57.35	52	9	56.54	--
May 6	56.68	57	23	56.65	67
10	56.66	67	29	56.82	60
15	56.68	67	Oct. 6	56.80	58
31	56.64	70	13	56.68	55
June 17	56.46	80	20	56.61	54
July 1	56.24	81	27	56.56	51
16	56.10	78	Nov. 5	56.71	46
30	56.00	79	10	56.70	46
Aug. 16	55.88	73	17	56.63	47
Sept. 30	55.69	64	24	56.51	45
Oct. 9	55.69	61	Dec. 1	56.60	35
Nov. 4	56.06	50	8	56.68	32
Dec. 10	56.40	--	15	56.66	32
16	56.54	--	22	56.65	32
23	56.56	--	29	56.62	33
30	56.64	--	1959		
1958			Feb. 9	56.82	--
Jan. 20	56.80	--	16	56.92	--
27	57.00	--	Mar. 9	57.02	34
Feb. 3	56.94	--	16	57.02	36
10	56.84	--	24	57.02	39
24	56.78	32	30	56.92	40
Mar. 3	56.55	34	Apr. 7	57.02	46
10	56.86	33	13	56.90	43
17	57.17	43	21	56.78	56
24	56.97	43	27	56.72	55
Apr. 3	57.25	44	May 4	56.78	56
14	57.30	46	11	56.60	61
21	57.02	55	18	56.56	64
28	57.16	56	25	56.52	65
May 5	57.10	57	June 1	56.48	65
12	57.06	62	8	56.63	69
19	56.86	63	15	56.62	66
26	56.88	65	22	56.65	67
June 2	56.79	66	29	56.65	68
10	56.70	--	July 7	57.12	79
16	56.60	--	13	56.70	76
23	56.62	67	21	56.80	75
30	56.34	73	27	56.64	75
July 7	56.48	74	Aug. 3	56.48	81
14	56.48	76	10	56.42	74
21	56.42	73	17	56.94	84
28	56.45	72	29	56.28	76
Aug. 5	56.59	75	Sept. 2	56.36	80
11	56.48	75	8	56.34	81
25	57.05	78			

Table 6.--Water levels and temperatures of selected ponds in the Brockton-Pembroke area, Massachusetts--Continued

STETSON POND

Date	Water level	Temp.
1958		
Feb. 12	61.98	--
26	62.25	36
Mar. 5	62.57	36
19	63.04	42
26	63.12	44
31	63.08	43
Apr. 7	63.32	45
14	63.14	49
21	62.99	51
28	62.99	55
May 5	63.02	57
12	63.31	59
19	63.08	66
26	62.91	65
June 2	62.88	67
10	62.80	--
16	62.67	--
23	62.85	--
30	62.63	79
July 7	62.59	72
14	62.63	78
21	62.58	78
28	62.56	76
Aug. 5	62.94	80
11	62.73	76
19	62.50	71
25	62.48	70
Sept. 2	62.41	70
9	62.26	69
15	62.15	68
23	62.38	66
29	62.61	66
Oct. 6	62.37	58
13	62.21	52
20	62.23	56
27	62.51	52
Nov. 5	62.80	50
10	62.87	48
17	62.82	48
24	62.78	45
1958		
Dec. 1	62.83	34
8	62.82	36
15	62.83	--
22	62.97	--
1959		
Jan. 5	63.15	--
19	62.19	--
26	62.26	--
Feb. 2	62.21	--
9	62.27	--
16	62.54	--
Mar. 2	62.68	--
9	62.95	38
16	62.98	40
24	63.46	44
30	63.02	45
Apr. 7	63.04	48
13	62.89	50
21	62.88	54
27	62.79	55
May 4	62.88	61
11	62.61	62
18	62.42	66
25	62.43	70
June 1	62.58	75
8	62.72	75
15	62.81	75
22	62.87	71
29	62.82	76
July 7	62.68	78
13	62.83	72
21	62.91	72
27	62.74	74
Aug. 3	62.57	74
10	62.48	72
17	62.27	84
29	62.10	80
Sept. 2	62.31	79
8	62.23	82

WAMPATUCK POND

Date	Water level	Temp.
1958		
May 26	67.20	64
June 2	67.08	68
16	66.98	--
23	67.02	66
30	66.96	61
July 7	66.94	72
14	66.94	79
21	66.88	79
28	66.92	75
Aug. 5	67.08	77
11	66.94	75
Sept. 9	66.90	--
23	67.02	72
29	67.20	61
Oct. 6	67.04	59
13	66.86	54
20	66.92	56
27	67.12	--
Nov. 5	67.12	41
10	67.08	45
17	67.00	48
24	66.96	45
Dec. 1	67.02	33
8	67.08	33
15	66.98	35
22	66.96	38
29	66.90	38
1959		
Jan. 5	66.94	39
12	66.85	39
19	66.96	39
26	66.66	--
Feb. 2	66.90	38
9	66.95	37
16	67.12	39
24	67.00	37
Mar. 2	67.08	38
9	67.12	37
16	67.18	40
24	67.28	43
30	67.14	41
Apr. 7	67.18	49
13	67.16	51
21	67.14	56
27	67.09	58
May 4	67.16	59
1959		
May 11	67.08	63
18	67.06	65
25	66.94	66
June 1	66.96	71
8	67.06	69
15	67.10	62
22	67.12	71
29	67.09	67
July 7	67.00	75
13	-----	76
21	67.10	76
27	66.98	--
Aug. 3	66.80	78
10	66.80	72
17	66.78	78
24	66.76	78
Sept. 2	66.94	84
8	66.86	84
14	66.75	--
22	66.64	--
Oct. 1	66.64	--
14	66.95	--
27	67.01	--
Nov. 12	66.94	--
28	67.08	--
Dec. 10	67.04	--
23	66.88	--
1960		
Jan. 7	67.08	--
26	67.04	--
Feb. 4	67.05	--
17	67.12	--
Mar. 3	67.15	--
16	67.16	--
Apr. 1	67.33	--
14	67.08	--
28	67.00	--
May 11	67.00	--
27	67.04	--
June 8	66.96	--
24	66.86	--
July 22	66.88	--
Aug. 26	66.78	--
Sept. 24	67.06	--
Oct. 21	66.93	--
Nov. 21	66.95	--

Table 7.--Discharge measurements of selected streams in the Brockton-Pembroke area, Massachusetts1/

Stream	Tributary to	Location	Drainage area (Square miles)	Date	Discharge (Cubic feet per second)	Date	Discharge (Cubic feet per second)
Indian Head Brook	Indian Head River	Lat 42°03'54", long 70°51'55", at Liberty St Bridge, 100 ft below outlet of Wampatuck Pond, 1.0 miles southeast of Hanson.	2.56	8-28-58	4.00	10-21-59	.56
				9-26-58	2.42	11-18-59	1.36
				12- 8-58	4.70	12-22-59	1.79
				1-21-59	2.39	1-26-60	3.32
				3- 2-59	4.99	4-13-60	9.46
				4- 9-59	6.40	5-11-60	2.67
				5-12-59	3.75	7- 6-60	1.44
				6-16-59	4.73	8-17-60	.20
				7-21-59	5.21	9-16-60	.18
				9- 9-59	.71		
Herring Brook	Indian Head River	Lat 42°03'43", long 70°48'09", at Mountain Ave Bridge, 0.8 mile southeast of Pembroke.	5.48	8-27-58	7.14	10-20-59	.99
				9-26-58	4.37	11-18-59	1.92
				12- 8-58	8.18	12-21-59	6.18
				1-22-59	5.97	1-26-60	7.61
				3- 2-59	15.2	4-12-60	12.0
				4- 9-59	14.8	5-10-60	10.0
				5-12-59	8.38	7- 6-60	3.63
				6-17-59	6.01	8-17-60	1.64
				7-20-59	8.72	9-16-60	1.00
				9- 9-59	1.87		
Pudding Brook	Herring Brook	Lat 42°05'25", long 70°47'32", at bridge on State Highway 3, at North Pembroke.	4.53	8-28-58	6.64	10-21-59	2.00
				9-29-58	10.2	11-18-59	3.00
				12- 9-58	10.3	12-22-59	4.79
				1-20-59	7.79	1-26-60	7.05
				3- 2-59	14.6	4-13-60	11.7
				4- 8-59	14.2	5-11-60	8.58
				5-11-59	3.67	7- 7-60	2.92
				6-17-59	10.1	8-17-60	2.89
				7-20-59	11.4	9-16-60	1.72
				9- 9-59	1.52		

Table 7.--Discharge measurements of selected streams in the Brockton-Pembroke area, Massachusetts--Continued

Stream	Tributary to	Location	Drainage area (Square miles)	Date	Discharge (Cubic feet per second)	Date	Discharge (Cubic feet per second)
Pine Brook	Jones River	Lat 42°00'49", long 70°46'14", 75 ft below bridge on State Highway 27, $1\frac{1}{4}$ miles northeast of Silver Lake.	3.14	8-28-58	4.53	10-20-59	2.09
				9-29-58	11.7	11-17-59	2.12
				12- 9-58	6.48	12-21-59	8.18
				1-22-59	6.40	1-26-60	5.67
				3- 4-59	13.2	4-12-60	11.2
				4- 8-59	16.2	5-10-60	4.08
				5-11-59	5.00	7- 6-60	1.67
				6-16-59	7.20	8-17-60	1.27
				7-20-59	6.16	9-16-60	.58
				9- 9-59	1.80		
Stump Pond Outlet	Satucket River through Robbins Pond	Lat 41°59'55", long 70°53'19", at Furnace St Bridge, 50 ft below outlet of Stump Pond, and $1\frac{1}{2}$ miles northwest of Halifax.	10.5	8-27-58	16.5	10-20-59	5.18
				9-29-58	17.7	11-17-59	7.12
				12- 9-58	16.2	12-21-59	13.9
				1-21-59	10.5	1-27-60	12.0
				3- 3-59	21.7	4-12-60	51.7
				4- 8-59	35.1	5-10-60	12.0
				5-11-59	26.4	7- 7-60	6.11
				6-16-59	12.4	8-17-60	3.51
				7-21-59	22.1	9-16-60	5.73
				9- 9-59	8.66		

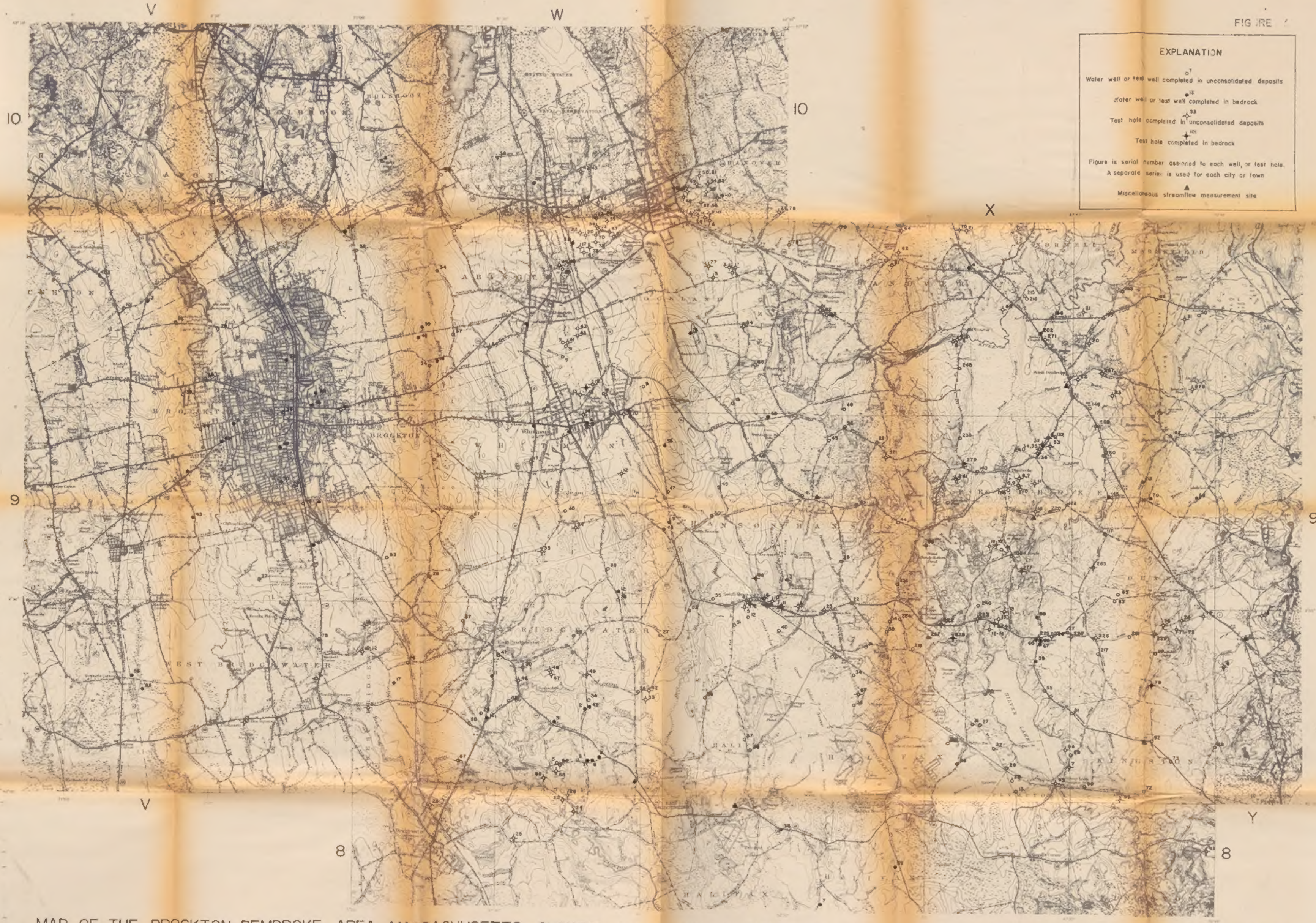
[1] Daily discharge records for the following streams in the Brockton-Pembroke area have been published in U. S. Geological Survey Water Supply Papers 1621 and 1701, "Surface Water Supply of the United States": Indian Head Brook near Hanson (drainage area, 4.39 sq mi), Pudding Brook at East Pembroke, Matfield River at Elmwood, and Poor Meadow Brook at South Hanson.

– NOTES –

– NOTES –

— NOTES —

FIGURE



EXPLANATION

Water well or test well completed in unconsolidated deposits

Water well or test well completed in bedrock

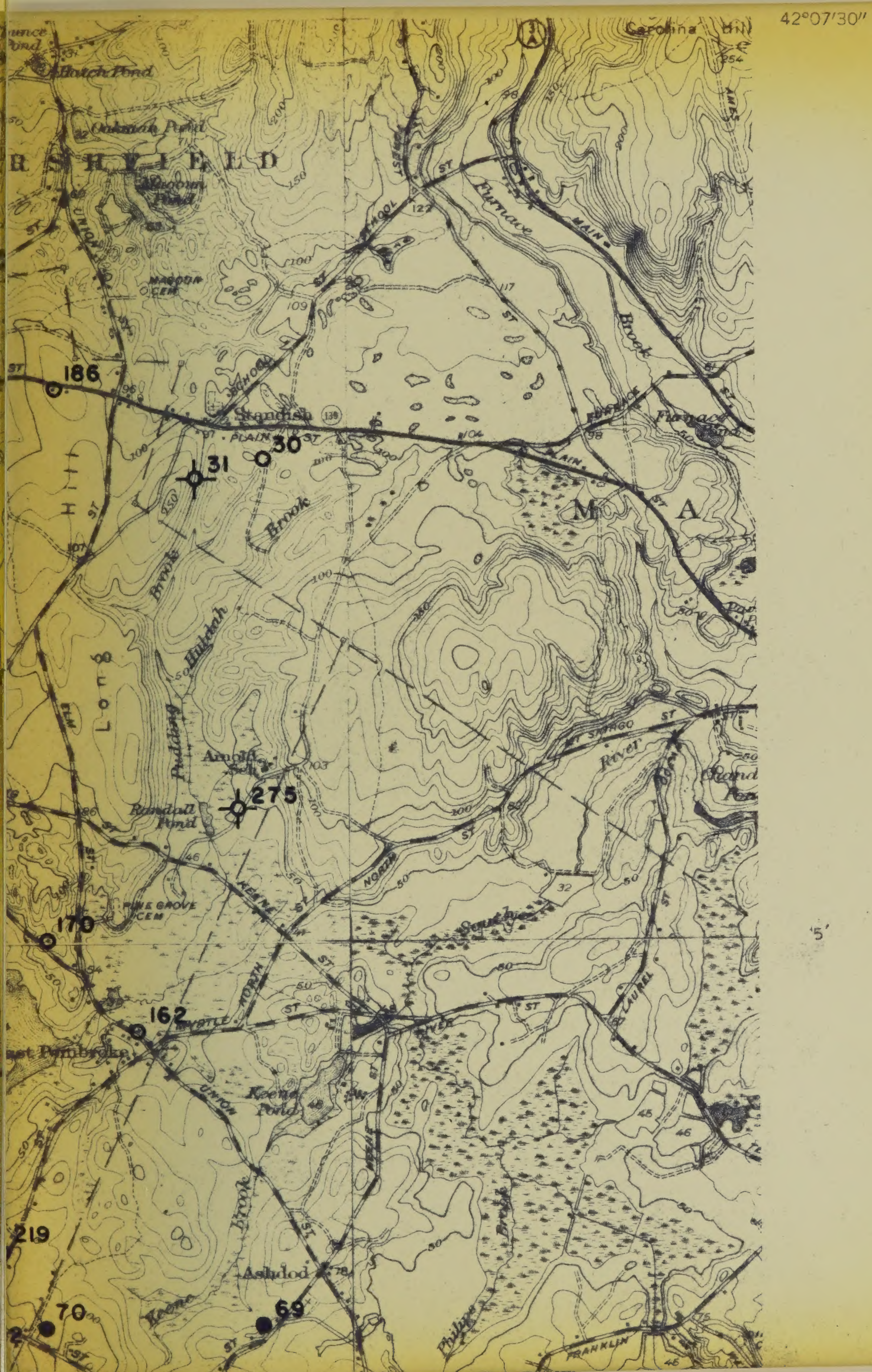
Test hole completed in unconsolidated deposits

Test hole completed in bedrock

Figure is serial number assigned to each well, or test hole. A separate series is used for each city or town

▲ Miscellaneous streamflow measurement site

MAP OF THE BROCKTON-PEMBROKE AREA, MASSACHUSETTS, SHOWING LOCATIONS OF SELECTED WELLS, TEST HOLES, AND STREAM-GAGING STATIONS


42°07'30"
Carolina Hill
Hatch Pond
Oldham Pond
R S H F I E L D
Magoun Pond
MAGOUN CEM
Furnace
Brook
MAIN
SCHOOL
Standish
PLAIN ST
186
30
31
Hill
Brook
M A
Furnace Pond
Hudah
Brook
Long
Pudding
Arnold Sch
275
Randall Pond
River
N SANDGO ST
NORTH
PINE GROVE CEM
170
Smelt Brook
162
MYRTLE
East Pembroke
UNION
Keene Pond
LAUREL
219
Brook
Ashdod
70
69
Keene
Philips Brook
FRANKLIN
5'

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